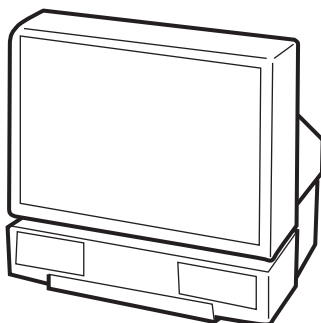


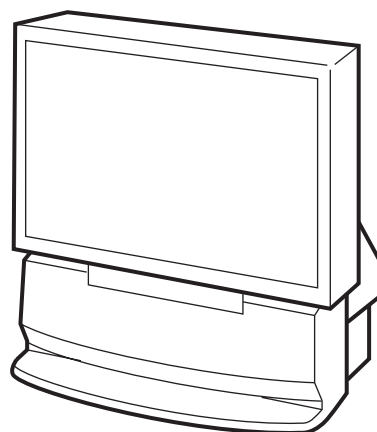
SERVICE MANUAL RA-2A CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KP-41T65K</i>	<i>RM-Y149A</i>	<i>Korea</i>	<i>SCC-N94A-A</i>
<i>KP-41T65T</i>	<i>RM-Y136A</i>	<i>Taiwan</i>	<i>SCC-N95A-A</i>
<i>KP-53S65T</i>	<i>RM-Y136A</i>	<i>Taiwan</i>	<i>SCC-N95B-A</i>

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KP-48V75K</i>	<i>RM-Y901K</i>	<i>Korea</i>	<i>SCC-N94B-A</i>
<i>KP-53V75K</i>	<i>RM-Y901K</i>	<i>Korea</i>	<i>SCC-N94C-A</i>



RM-Y901K RM-Y136A/Y149A KP-41T65K/41T65T



KP-48V75K/53S65T/53V75K



* Please file according to model size. ☐

41 48 53

Color Rear Video Projector
SONY[®]

SPECIFICATIONS

Projection system	3 picture tubes, 3 lenses, horizontal in-line system						
Picture tube	7 inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system						
Projection lenses	High performance, large-diameter hybrid lens F1.1						
Screen size (measured diagonally)	<table> <tr> <td>KP-41T65K/41T65T</td><td>41 inches</td></tr> <tr> <td>KP-48V75K</td><td>48 inches</td></tr> <tr> <td>KP-53S65T/53V75K</td><td>53 inches</td></tr> </table>	KP-41T65K/41T65T	41 inches	KP-48V75K	48 inches	KP-53S65T/53V75K	53 inches
KP-41T65K/41T65T	41 inches						
KP-48V75K	48 inches						
KP-53S65T/53V75K	53 inches						
Television system	American TV standards						
Channel coverage	VHF: 2 – 13 / UHF: 14 – 69 / CATV: 1 – 125						
Antenna	75 ohm external antenna terminal for VHF/UHF						
Inputs/output	(KP-41T65K/41T65T/53S65T) VIDEO IN 1 VIDEO IN 2 (VIDEO 2 INPUT) S VIDEO (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance : 47 kilohms VIDEO IN 3 VIDEO (phono jacks): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation) Impedance: 47 kilohms MONITOR OUT VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 10 kilohms AUDIO OUT (phono jacks): 900 mVrms (100% modulation) Impedance: 5 kilohms (KP-48V75K/53V75K) VIDEO IN 1 VIDEO 2 INPUT VIDEO IN 3 S VIDEO (4-pin mini DIN): Y: 1 Vp-p, 75-ohms unbalanced, sync negative C: 0.286 Vp-p (Burst signal) 75 ohms VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative						

AUDIO (phono jacks): 500 mVrms (100% modulation)
Impedance : 47 kilohms

VIDEO IN 4
Y : 1 Vp-p, 75-ohms , sync negative
CB : 1 Vp-p, 75-ohms
CR : 1 Vp-p, 75-ohms

TV OUT
MONITOR OUT
VIDEO (phono jack): 1 Vp-p, 75-ohms unbalanced, sync negative
AUDIO (phono jacks): 500 mVrms (100% modulation), Impedance: 10 kilohms
AUDIO (VAR/FIX) OUT (phono jacks): 500 mVrms (100% modulation) Impedance: 5 kilohms

Speaker	Full range speaker 100 mm (3.9 inches) diameter
Speaker output	12 W x 2 (For KP-41T65K/41T65T/53S65T) 15 W x 2 CENTER SPEAKER IN : 30 W x 1 (NORMAL), 60W x 1 (MAX), 16 ohms (For KP-48V75K/53V75K)
Power requirement	220 V, 60 Hz (For KP-41T65K/48V75K/53V75K) 110 V, 60 Hz (For KP-41T65T/53S65T)
Power consumption	165 W (For KP-41T65K/41T65T/53S65T) 175 W (For KP-48V75K/53V75K) Standby mode: 2.5 W

	Dimensions (W/H/D)	Mass
KP-41T65K /41T65T	951 x 1,022 x 602 mm (37 1/2 x 40 1/4 x 23 3/4 inches)	55 kg (121 lbs 4 oz)
KP-48V75K	1,106 x 1,337 x 571 mm (43 5/8 x 52 5/8 x 22 1/2 inches)	70 kg (154 lbs 5 oz)
KP-53S65T	1,218 x 1,413 x 614 mm (48 x 55 5/8 x 24 1/4 inches)	69 kg (152 lbs 1 oz)
KP-53V75K	1,218 x 1,413 x 614 mm (48 x 55 5/8 x 24 1/4 inches)	73 kg (161 lbs 2 oz)

Supplied accessories	Remote control RM-Y149A (1) (For KP-41T65K) RM-Y136A (1) (For KP-41T65T/53S65T) RM-Y901K (1) (For KP-48V75K/53V75K) Size AA (R6) battery (2)
Optional accessories	U/V mixer EAC-66 Connecting cables RK-74A, VMC-810S/820S, YC-15V/30V, VMC-720M Stand SU-41T2 (For KP-41T65T)

Design and specifications are subject to change without notice.

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

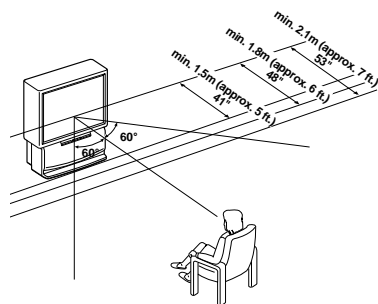
The instructions here list excerpts mainly from the KP-47V75/53V75 Owner's Manual. Other models are mentioned only for points differing from KP-47V75/53V75.

Getting Started

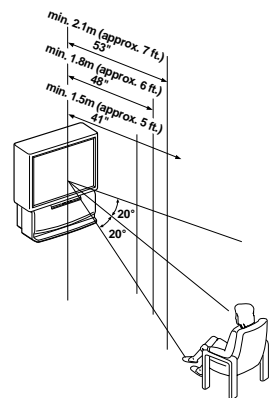
Step 1: Installing the projection TV

For the best picture quality, install the projection TV within the areas shown below.

Optimum viewing area (Horizontal)



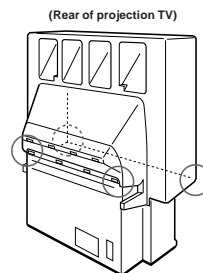
Optimum viewing area (Vertical)



Carrying your projection TV

■ KP-48V75/53V75/53V75C only

Be sure to grasp the areas indicated when carrying the projection TV, and to use more than two people.



■ KP-61V75 only

Carry your projection TV by the casters.

Preparing for your projection TV

Before you use your projection TV, adjust convergence. For the procedure, see "Step 4: Setting up the projection TV automatically (AUTO SET UP)" on page 21.

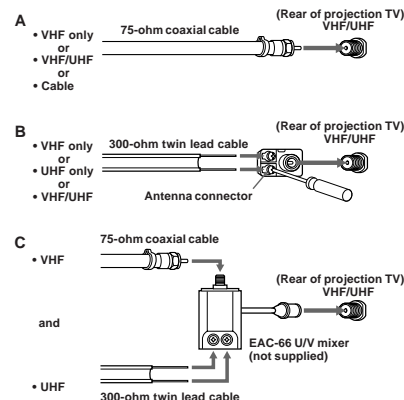
EN

Step 2: Hookup

Although you can use either an indoor or outdoor antenna with your projection TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

Connecting an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.



Notes

- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

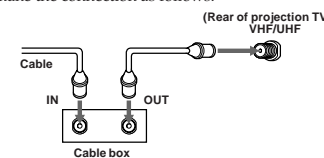
Connecting an antenna/cable TV system without a VCR

To cable or antenna

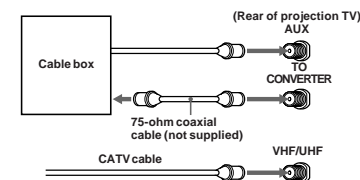


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable



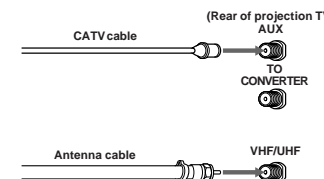
Pay cable TV systems use scrambled or encoded signals requiring a cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

- You cannot watch the signal through an AUX connector as a window picture.

To cable and antenna



Note

- Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see your VCR instruction manual.

Before making the connection, disconnect the AC power cords of the equipment to be connected.

To a conventional VCR

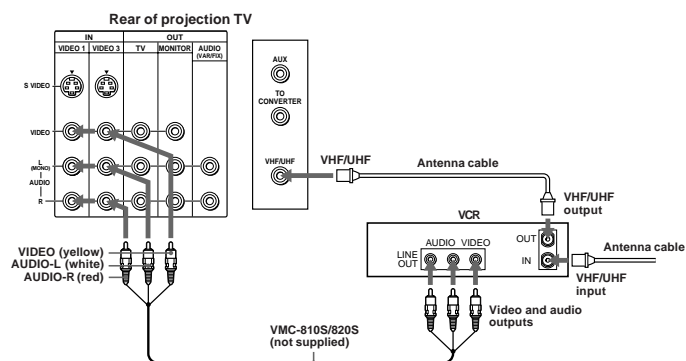
Note

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/3 IN on the projection TV.

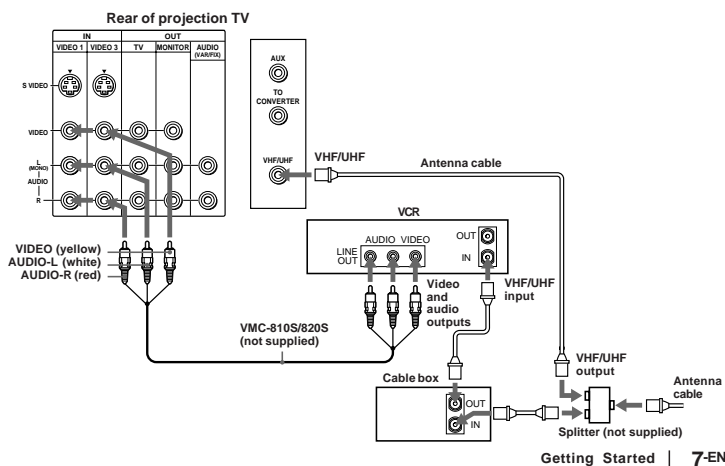
After making these connections, you will be able to do the following:

- View the playback of video tapes
- Record one TV program while viewing another program
- Watch two TV programs at once using PIP

Without a cable box



With a cable box

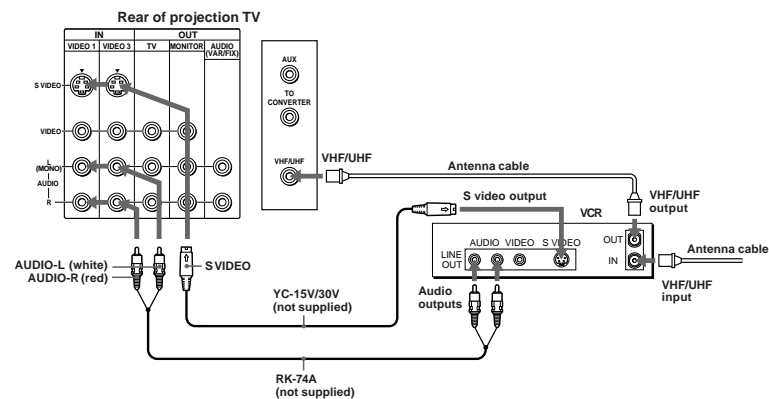


To an S video equipped VCR

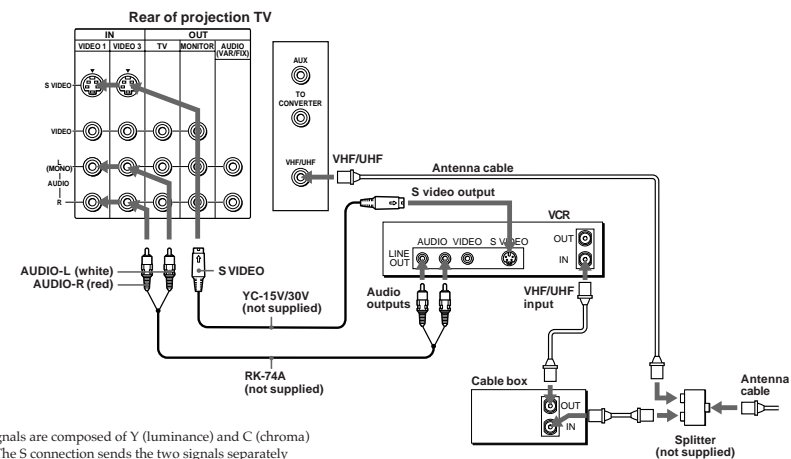
If your VCR has an S VIDEO output connector, make the following connections.

Whenever you connect the cable to the S VIDEO input connector, the projection TV automatically receives S video signals.

Without a cable box



With a cable box



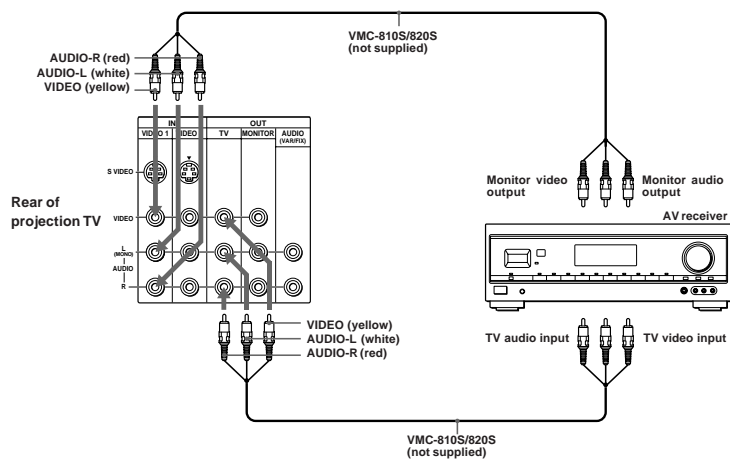
Note

- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.

Connecting an AV receiver

Connect an optional AV receiver to the VIDEO 1 IN jacks at the rear of the projection TV.

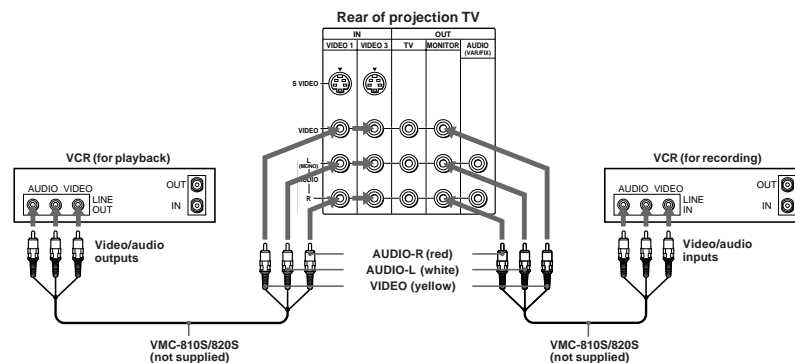
If your AV receiver has the TV input jacks, connect them to the TV OUT jacks at the rear of the projection TV.



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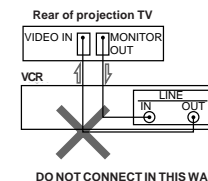
Connecting two VCRs for tape editing using MONITOR OUT

You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



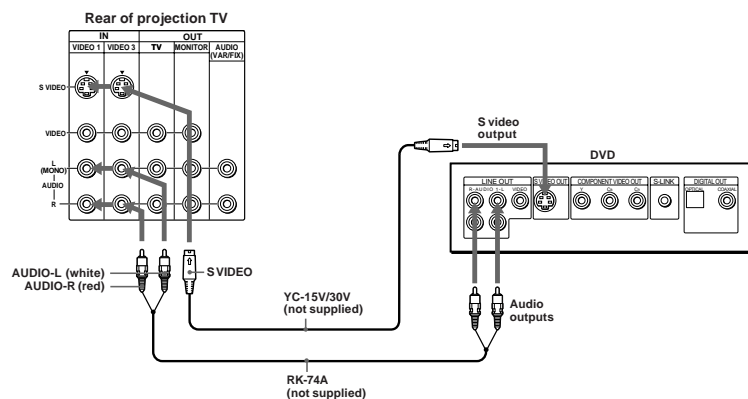
Notes

- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video connector to connect a VCR for recording.
- When connecting a single VCR to the projection TV, do not connect the MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN connectors to the VCR's line output, as shown below.



Connecting a DVD player without component video output connectors

Connect VIDEO 1/3 connectors on the projection TV to line output connectors on the DVD player.



Notes

- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.
- If your DVD player does not have S video output connector, use composite video connector for the video connection.
- Video signals are composed of Y (luminance) and C (chroma) signals. The S connection sends the two signals separately preventing degradation, and gives better picture quality compared to conventional connections.
- Because the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, reduce the SHARPNESS level in the VIDEO menu (see SHARPNESS on page 31).

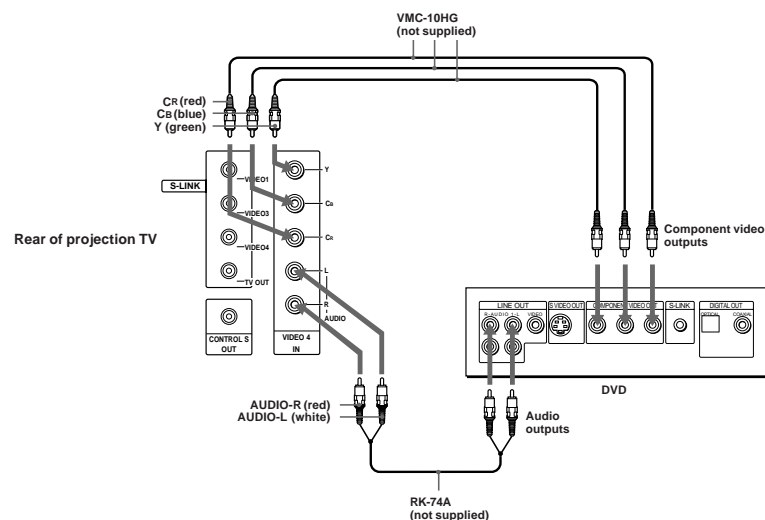
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(continued)

Connecting a DVD player with component video output connectors

Component video terminals Y/C_B/C_R provide a sharper, higher resolution picture by reducing the amount of signal processing thus creating a more accurate reproduction of the source.


If your DVD player has component video output connectors, connect them to VIDEO 4 IN on the projection TV in the following way.



Notes

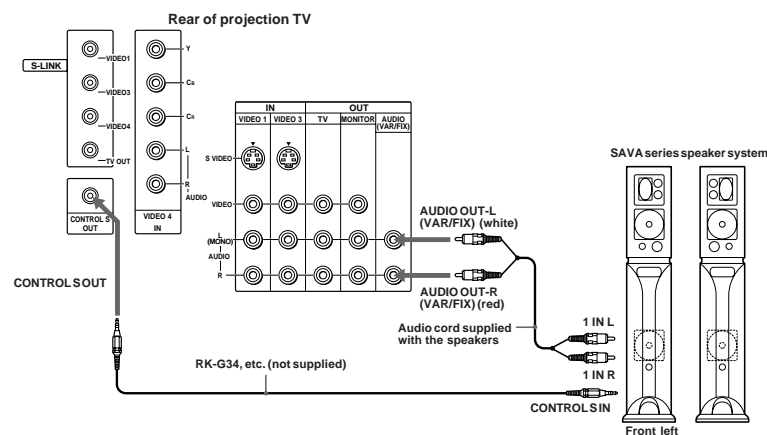
- Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.
- When the DVD player is connected using VIDEO 4 IN, its MONITOR OUT signals cannot be output.
- Some DVD player connectors may be labeled Y, B-Y, and R-Y. In this case, connect Y (green) on the projection TV to Y on the DVD player, C_B (blue) to B-Y, and C_R (red) to R-Y.
- The jacks of this projection TV are colored in green (Y), blue (C_B), and red (C_R). If line output connectors of your DVD player have different colors, make connections according to their labels.
- Because the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, reduce the SHARPNESS level in the VIDEO menu (see SHARPNESS on page 31).
- If the incorrect colors appear when using this component video input, recheck the connections they may be reversed.

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* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby", the double-D symbol  and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.



If you have a Sony SAVA series speaker system, connect your speakers to the AUDIO (VAR)/FIX OUTPUT jacks on the rear of the projection TV with the audio cable supplied with the speakers. You can take advantage of the speakers' Dolby Pro Logic surround system and super woofer mode, and control them with the supplied remote control. When connecting a Sony SAVA series speaker system, see page **35** for more information.



Using the S-Link function

S-Link function is a Sony innovation designed to make your Sony components work together. It allows you to switch automatically the TV's input mode to video when you press the play button on your Sony S-Link VCR. It also allows you to turn the VCR and TV off at the same time with the SYSTEM OFF button on the remote control (see page 44 for details).

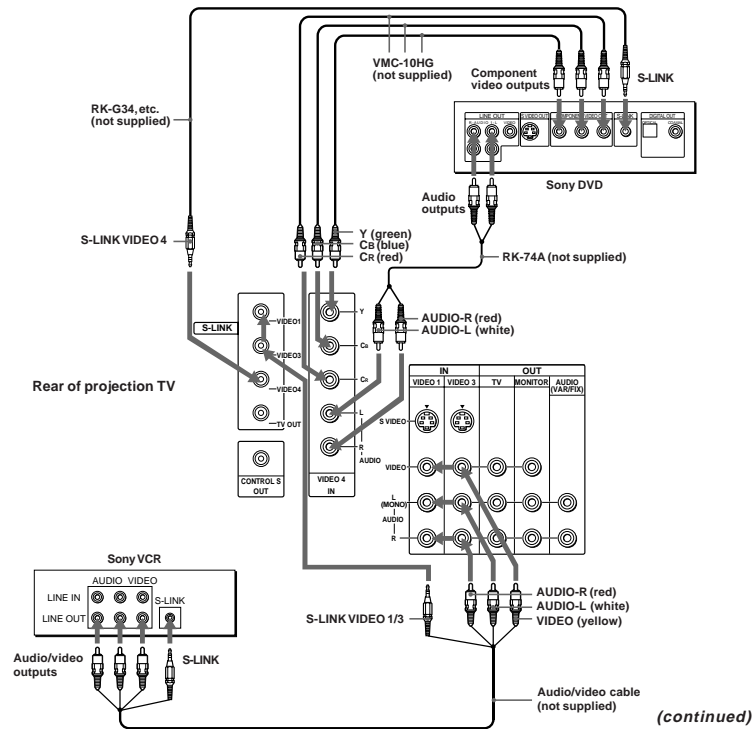
Using the S-Link function without a Sony AV receiver

To make use of this function, be sure to connect the video equipment to the VIDEO IN and S-LINK connectors with the same label, that is, to VIDEO 1 IN and S-LINK VIDEO 1, to VIDEO 3 IN and S-LINK VIDEO 3, and to VIDEO 4 IN and S-LINK VIDEO 4.

Notes

- The projection TV may malfunction if you connect the S-Link cable to the projection TV without connecting the other end of the cable to the VCR.
- When making the S-Link connection, be sure to insert all the connectors firmly.

Refer also to the Operating Instructions supplied with your VCR, DBS tuner, LD player, and other Sony video equipment for details.

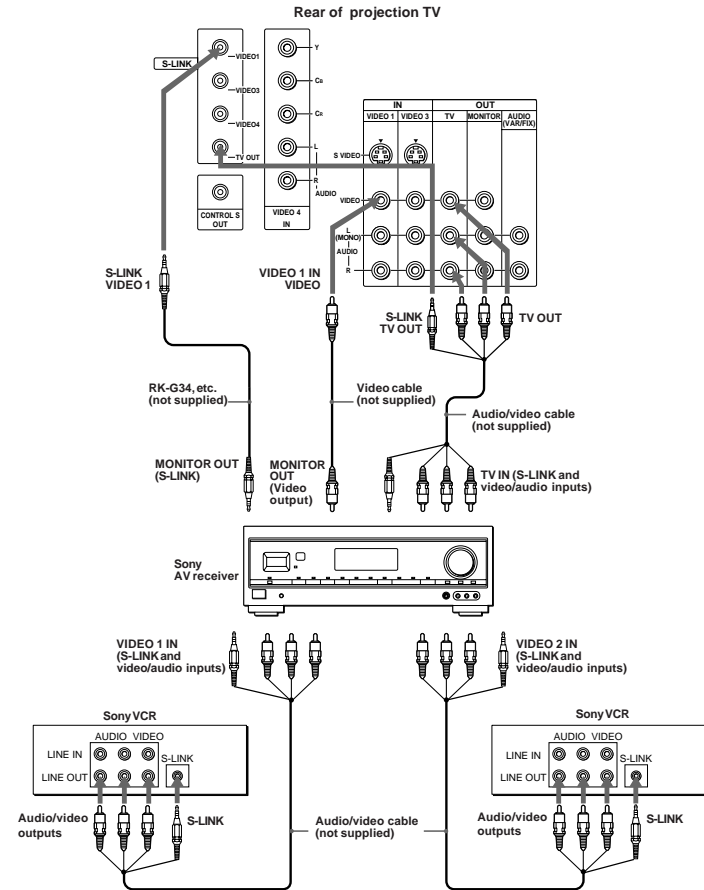


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Using the S-Link function with a Sony AV receiver

When making S-Link connections through a Sony AV receiver, set the TV speaker switch to OFF, CENTER or SAVA SP, but never to ON (see page 35).

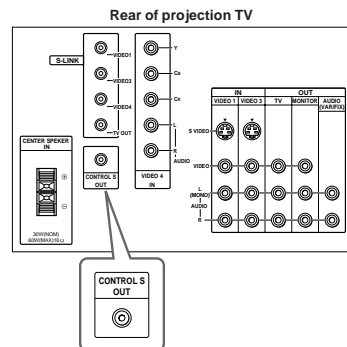
Refer also to the Operating Instructions supplied with your VCR, DBS tuner, LD player, AV receiver, and other Sony video equipment for details.



Connecting other Sony equipment with CONTROL S jack

This feature allows you to control your projection TV and other Sony equipment with one remote control.

To control other Sony equipment with the projection TV's remote control, connect the input of the equipment to CONTROL S OUT jack on the projection TV.

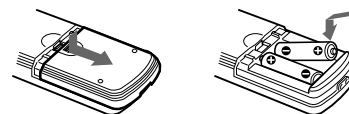


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Step 3: Setting up the remote control

Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the battery to the diagram inside the battery compartment.



Notes

- Under normal conditions, batteries will last up to six months. If the remote control does not operate properly or the indicators of the buttons on the remote control do not light up, the batteries may be worn out. When replacing batteries, replace both of them with new ones.
- Do not mix old batteries with new ones or mix different types of batteries together.
- If the electrolyte inside the battery should leak, wipe the contaminated area of the battery compartment with a cloth and replace the old batteries with new ones. To prevent the electrolyte from leaking, remove the batteries when you don't plan to use the remote control for a long period of time.
- Do not handle the remote control roughly. Do not drop it, step on it, or let it get wet.
- Do not place the remote control in direct sunlight, near a heater, or where the humidity is high.

Getting to know buttons on the remote control

Names of buttons on the remote control are indicated in different colors to represent the available functions.

Button color

Transparent TV/VCR/DBS/Cable box function (light up) buttons. Press the appropriate function button first to change the remote control's function.

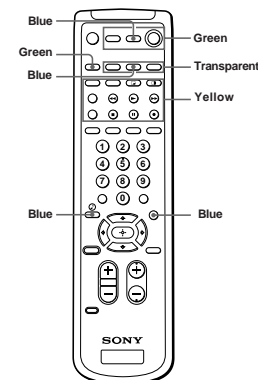
Green Buttons relevant to power operations.

Label color

White TV/VCR/DBS/Cable box operation buttons.

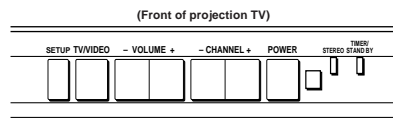
Yellow PIP operation buttons.

Blue DBS operation buttons.



Step 4: Setting up the projection TV automatically (AUTO SET UP)

You can set up your projection TV easily by using the AUTO SET UP feature. It presets all the receivable channels, adjusts the convergence and changes the on-screen menu language. To set up the projection TV manually, see "Adjusting convergence" (page 23), "Setting cable TV on or off" (page 24), "Presetting channels" (page 25) and "Changing the menu language" (page 25). If the projection TV is set to a video input, you cannot perform AUTO SET UP. Press TV/VIDEO so that a channel number appears.



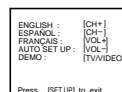
Before you start using AUTO SET UP, be sure to connect the antenna or cable to the projection TV (see page 6).

1 Press POWER to turn the projection TV on.



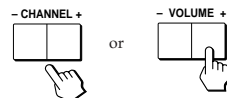
2 Press SETUP on the front of the projection TV.

AUTO SET UP screen appears.



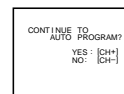
3 Press CHANNEL +/- or VOLUME + to select the on-screen menu language.

If you prefer Spanish or French to English, you can change the on-screen menu language.



All of the menus will be set to the factory preset condition in the selected language.

4 Press VOLUME - to start AUTO SET UP.

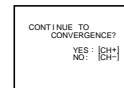


5 Press CHANNEL + to preset channels.



EN

"AUTO PROGRAM" appears on the screen and the TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the following menu appears. If the projection TV receives cable TV channels, CABLE is set to ON automatically.



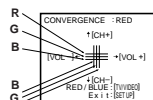
To exit AUTO PROGRAM

Press any button.

6 Adjust convergence.

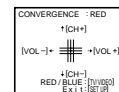
(1) Press CHANNEL +.

The CONVERGENCE adjustment screen appears.

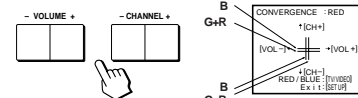


Getting Started 21-EN

(2) Press TV / VIDEO to select RED or BLUE.



(3) Using CHANNEL +/- or VOLUME +/-, move the line until it converges with the center green line.



To move horizontal line up/down, press CHANNEL +/-.

To move vertical line right/left, press VOLUME +/-.

(4) Repeat steps (2) and (3) to adjust the other lines until all three lines converge and are seen as a white cross.



Note

- Using the AUX connector, press ANT first and make sure that "AUX" is displayed beside the channel number on the screen. Then follow the steps 2 to 6 above to perform AUTO SET UP.

To preview the main functions (DEMO)

Press TV / VIDEO on the projection TV in step 4. The functions and menus are displayed one by one.

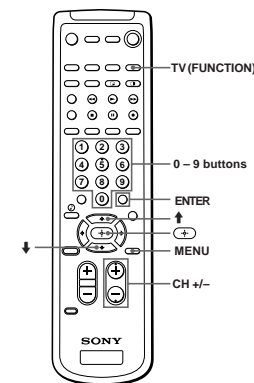
To exit DEMO

Press any button.

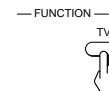
22-EN Getting Started

Erasing or adding channels

After AUTO SET UP, you can erase unnecessary channels or add the channels you want. Preset channels during the day rather than late at night, when some channels may not be broadcasting.



1 Press TV (FUNCTION).



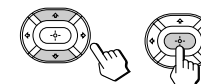
2 Press MENU.

The main menu appears.

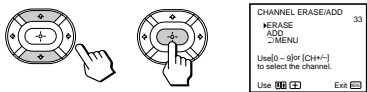


3 Press + or - to select , and press .

The SET UP menu appears.



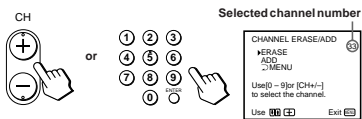
- 4 Press \uparrow or \downarrow to select CHANNEL ERASE/ADD, and press \odot .
The CHANNEL ERASE/ADD menu appears.



5 Erase and/or add channels:

To erase an unwanted channel:

- Make sure the cursor (\blacktriangleright) is beside ERASE.
- Press CH \pm or the 0-9 buttons to select the channel you want to erase, and press ENTER.



- Press \odot .

The “-” indication appears beside the channel number, showing that the channel is erased from the preset memory.



To add a channel that you want

- Press \uparrow or \downarrow to move the cursor (\blacktriangleright) to ADD.
- Press the 0-9 buttons to select the channel you want to add, and press ENTER.



- Press \odot .

The “+” indication appears beside the channel number, showing that the channel is added to the preset memory.



- 6 To erase and/or add other channels, repeat step 5.

- 7 Press MENU to return to the original screen.



Notes

- If you erase or add a VHF or UHF channel, the cable TV channel with the same number is also erased or added, and vice versa.
- Erasing and adding channels is also available for the AUX input.

Adjusting convergence (CONVERGENCE)

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs. To correct this, adjust convergence.

You do not have to do this procedure if you perform AUTO SET UP (page 21). Do this procedure only when you want to adjust it manually.

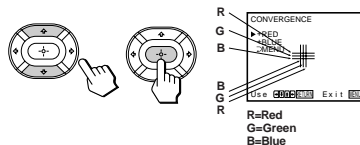
EN

- 1 Press MENU.

- 2 Press \uparrow or \downarrow to select \mathbb{R} , and press \odot .

- 3 Press \uparrow or \downarrow to select CONVERGENCE, and press \odot .

The CONVERGENCE adjustment screen appears.



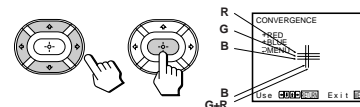
- 4 Press \uparrow or \downarrow to move the cursor (\blacktriangleright) to the symbol showing the line you want to adjust, and press \odot .



+RED : Red vertical and horizontal line (left/right/up/down adjustment)

+BLUE : Blue vertical and horizontal line (left/right/up/down adjustment)

- 5 Press \uparrow , \downarrow , \leftarrow , or \rightarrow to move the line until it converges with the center green line, and press \odot .



To move	Press
Up	\uparrow
Down	\downarrow
Right	\rightarrow
Left	\leftarrow

- 6 Repeat steps 4 and 5 to adjust the other lines until all three lines converge and are seen as a white cross.

- 7 Press MENU to return to the original screen.

Setting cable TV on or off

If you have connected the projection TV to a cable TV system, set CABLE to ON (the factory setting). If not, set CABLE to OFF.

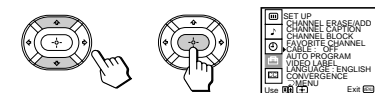
You do not have to do this procedure if you perform AUTO SET UP (page 21). Do this procedure only when you want to set it manually.

- 1 Press MENU.

- 2 Press \uparrow or \downarrow to select \mathbb{R} , and press \odot .

- 3 Set CABLE to ON or OFF:

- Press \uparrow or \downarrow to move the cursor (\blacktriangleright) to CABLE, and press \odot .
- Press \uparrow or \downarrow to select ON or OFF, and press \odot .






- 4 Press MENU to return to the original screen.

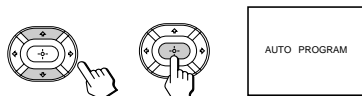
Note

- If CABLE appears in gray, the projection TV is set to a video input and you cannot select CABLE. Press ANT so that a channel number appears.

Presetting channels

You can preset TV channels easily by using the AUTO PROGRAM feature. You do not have to do this procedure if you perform AUTO SET UP (page 21). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select , and press .
- 3 Press \uparrow or \downarrow to select AUTO PROGRAM, and press .



"AUTO PROGRAM" appears on the screen and the projection TV starts scanning and presetting channels automatically. When all the receivable channels are stored, "AUTO PROGRAM" disappears and the lowest numbered channel is displayed.

- 4 Press MENU to return to the original screen.




To exit AUTO PROGRAM
Press any button.

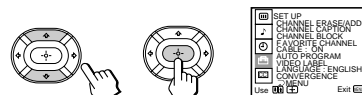
Notes


- If the AUTO PROGRAM menu appears in gray, the projection TV is set to a video input and you cannot select AUTO PROGRAM. Press ANT so that a channel number appears.
- Presetting channels is also available for the AUX input.

Changing the menu language

If you prefer Spanish or French to English, you can change the menu language. You do not have to do this procedure if you select the language during AUTO SET UP (page 21). Do this procedure only when you want to set it manually.

- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select , and press .
- 3 Press \uparrow or \downarrow to select LANGUAGE, and press .



- 4 Press \uparrow or \downarrow to select your favorite language, "ENGLISH", "ESPAÑOL", or "FRANÇAIS" and press .



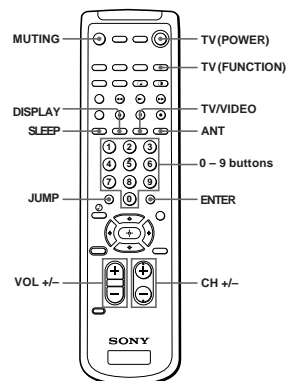
- 5 Press MENU to return to the original screen.

Note

- Certain parts of the Spanish or French menus remain in English.

Operations

Watching the TV

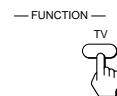


- 1 Press TV (POWER) to turn on the projection TV. The TIMER/STANDBY indicator flashes until the picture appears.



If "VIDEO" appears on the screen, press ANT so that a channel number appears.

- 2 Press TV (FUNCTION).

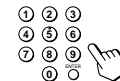


Once you press TV (FUNCTION), the projection TV function is set unless another function button is pressed.

- 3 Select the channel you want:

To select a channel directly

Press the 0-9 buttons, and press ENTER. For example, to select channel 10, press 1, 0 and ENTER.



To scan through channels

Press CH +/- until the channel you want appears.



The channel can also be selected without pressing ENTER.

- 4 Press VOL +/- to adjust the volume.



Switching quickly between two channels

You can use the JUMP button to switch or "jump" back and forth between two channels.

Press JUMP.



Pressing JUMP again switches the channel back to the one you selected last.

Note

- You cannot jump to channels you scanned through using the CH +/- buttons.

Muting the sound

Press MUTING.

"MUTING" appears on the screen.

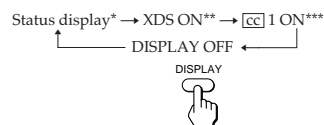


To restore the sound, press MUTING again, or press VOL +.

Displaying on-screen information

Press **DISPLAY** repeatedly until the desired display appears.

Each time you press **DISPLAY**, the display changes as follows:



* Channel number, the current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.

** Some programs are broadcast with XDS (Extended Data Service) which shows a network name, program name, program type, program length, call letters, and time of the show. When you select XDS with the **DISPLAY** button, this information will be displayed on the screen if the broadcaster offers this service.

*** Some programs are broadcast with Caption Vision. When you select Caption Vision with the **DISPLAY** button, Caption Vision will be displayed on the screen if the broadcaster offers this service. (See page 42 for selecting Caption Vision.)

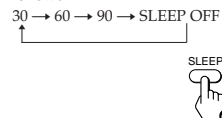
To cancel the display, press **DISPLAY** repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" goes off after three seconds.

Setting the Sleep Timer

The projection TV stays on for the length of time you specify and then shuts off automatically.

Press **SLEEP** repeatedly until the time (minutes) you want appears.

Each time you press **SLEEP**, the time changes as follows:

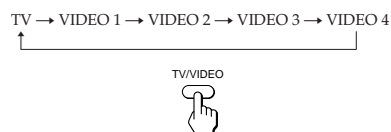


To cancel the Sleep Timer, press **SLEEP** repeatedly until "SLEEP OFF" appears, or turn off the projection TV.

Watching a video input picture

Press **TV/VIDEO** repeatedly until the desired video input appears.

Each time you press **TV/VIDEO**, the display changes as follows:



To return to the TV picture, press **ANT** so that a channel number appears.

Note

- When the video label for VIDEO 4 is set to SKIP, the display changes skipping the VIDEO 4 connection (see page 41).

Changing the VHF/UHF input to the AUX input

Press **ANT**.

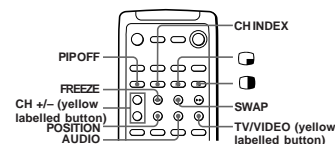
"AUX" appears beside the channel number.



Pressing **ANT** again switches back to the VHF/UHF input.

Watching two programs at one time — PIP/P&P (Twin View™)/CH INDEX

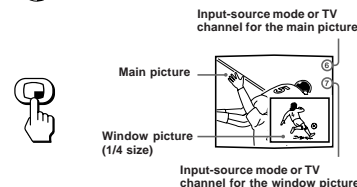
You can watch both the main/right picture and a window/left picture simultaneously using the Picture-in-Picture (PIP) or the Picture-and-Picture (Twin View™) feature.



Use the yellow labelled buttons for PIP operations.

Displaying a window picture (PIP)

Press **CH INDEX**.



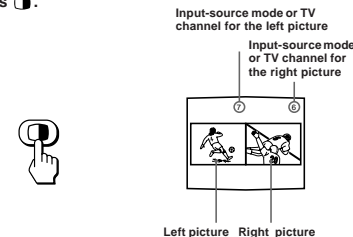
Press **CH INDEX** repeatedly to display a smaller window picture.

Each time you press **CH INDEX**, the size of the window picture changes as follows: 1/4 size → 1/9 size → 1/16 size.

To remove the window picture, press **PIP OFF**.

Displaying a left picture (P&P)

Press **CH INDEX**.



To restore the normal picture, press **PIP OFF**.

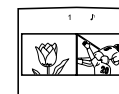
Notes

- If the main/right picture is not receiving an image, the window/left picture may become a noisy picture.
- The window/left picture sound is also output from the AUDIO (VAR/FIX) OUT jacks when you listen to it.

Changing the window/left picture input mode

Press **TV/VIDEO** (yellow labelled button) in **PIP** or **P&P** mode to select the input mode.

Each time you press **TV/VIDEO** (yellow labelled button), "TV", "VIDEO 1", "VIDEO 2", "VIDEO 3", and "VIDEO 4" appear in sequence.



A window/left picture will appear in the same input mode as the last time you used PIP.

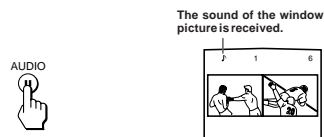
Notes

- If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.
- When the video label for VIDEO 4 is set to SKIP, "VIDEO 4" does not appear on the display.

Listening to the sound of the window/left picture

Press **AUDIO** in PIP or P&P mode.

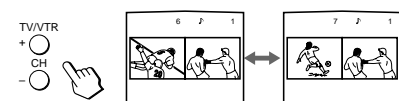
The **↗** display appears above the window/left picture for a few seconds, indicating that the window/left picture sound is being received.



To restore the main picture sound, press **AUDIO** again. The **↗** display moves to the main picture channel number.

Changing TV channels in the window/left picture

Press **CH +/-** (yellow labelled button) in PIP or P&P mode.



Changing the position of the window picture

Press **POSITION** in PIP mode.

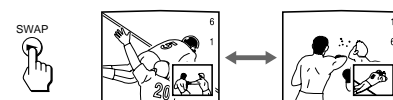
Each time you press **POSITION**, the window picture will move counterclockwise on the screen.



Swapping the main/right and window/left pictures

Press **SWAP** in PIP or P&P mode.

Each time you press **SWAP**, the images and sound from the main/right and window/left pictures switch places with another.



Note

- The channels being received through the AUX connector cannot be displayed as a window picture.

Watching multiple TV channels at one time (CH INDEX)

You can display all the preset channels in sequence.

1 Press CH INDEX.

The main picture is displayed in the center with a pink frame and 12 window pictures are displayed around the main picture.



Each time you press **CH INDEX**, the 12 window pictures will rotate and a new picture will appear.

2 Press **↑**, **↓**, **←** or **→** to move the pink frame to the channel you want to watch, and press **↵**.

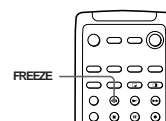
The selected channel appears on the screen.

To display eight favorite channels, press **↵**.

To return to the normal picture, press **PIP OFF**.

Freezing the picture (FREEZE)

The **FREEZE** feature is useful when you want to write down an information such as a recipe from a cooking program, a displayed address, or a phone number.

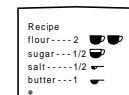


Press **FREEZE**.



The frozen picture differs depending on the current display mode.

Normal mode



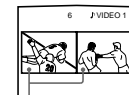
The current picture freezes.

PIP mode



The main picture freezes and the window picture disappears.

P&P mode



Both pictures freeze.

CH INDEX mode

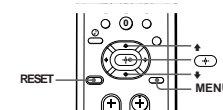


Only the main picture freezes.

To cancel the frozen picture, press **FREEZE** again.

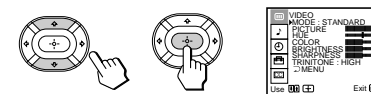
Adjusting the picture (VIDEO)

When watching TV programs, you can adjust the picture to suit your taste. You can adjust the picture of video input(s) as well.



1 Press **MENU**.

2 Press **↑** or **↓** to select **VIDEO**, and press **↵**.



3 Select the item you want to adjust.

For example:

- To adjust the brightness, press **↑** or **↓** to move the cursor (▶) to **BRIGHTNESS**.

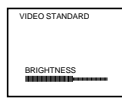
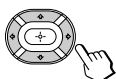


(2) Press **↵**.



4 Adjust the selected item:

(1) Press \blacktriangle , \blacktriangledown , \blacktriangleright , or \blacktriangleleft to adjust the item.



(2) Press \odot .

The new setting appears in the VIDEO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press \blacktriangle or \blacktriangledown to	Press \blacktriangle or \blacktriangledown to
PICTURE	Decrease picture contrast and give soft color.	Increase picture contrast and give vivid color.
HUE	Make picture tones become purplish.	Make picture tones become greenish.
COLOR	Decrease color intensity.	Increase color intensity.
BRIGHTNESS	Darken the picture.	Brighten the picture.
SHARPNESS	Soften the picture.	Sharpen the picture.

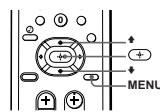
To restore the factory settings

Press RESET after displaying and selecting the VIDEO menu.

All of the settings are restored to the factory settings.

Adjusting the color temperature (TRINITONE)

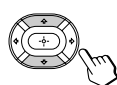
The TRINITONE feature controls the color temperature, permitting white balance preference adjustment without affecting skin tones.



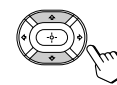
1 Press MENU.

2 Press \blacktriangle or \blacktriangledown to select \square and press \odot .

3 Press \blacktriangle or \blacktriangledown to select TRINITONE and press \odot .



4 Press \blacktriangle or \blacktriangledown to select NTSC STD, MEDIUM, or HIGH and press \odot .



Choose	To
HIGH	a cool (bluish) white.
MEDIUM	a neutral white.
NTSC STD	a warm (reddish) white.

Selecting the video mode (VIDEO)

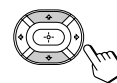
The video mode feature allows you to choose four different modes of picture settings. Choose the one that best suits the type of program that you want to watch.

1 Press MENU.

2 Press \blacktriangle or \blacktriangledown to select \square , and press \odot .

3 Press \blacktriangle or \blacktriangledown to select MODE, and press \odot .

4 Press \blacktriangle or \blacktriangledown to select VIVID, STANDARD, MOVIE, or SPORTS mode, and press \odot .



Choose	To
VIVID	Receive a highly contrasted, sharp picture.
STANDARD	Receive a standard picture.
MOVIE	Receive a finely detailed picture.
SPORTS	Receive a colorful, bright picture.

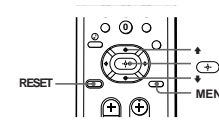
5 Press MENU to return to the original screen.

Note

- The settings for these modes can be adjusted in the VIDEO menu.

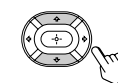
Adjusting the sound (AUDIO)

You can adjust the quality of the TV sound to suit your taste. You can adjust the sound of the video input(s) as well.



1 Press MENU.

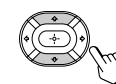
2 Press \blacktriangle or \blacktriangledown to select \square , and press \odot .



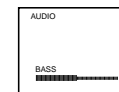
3 Select the item you want to adjust.

For example:

(1) To adjust bass, press \blacktriangle or \blacktriangledown to move the cursor (\blacktriangleright) to BASS.

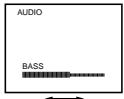
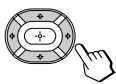


(2) Press \odot .



4 Adjust the selected item:

(1) Press \blacktriangle , \blacktriangledown , \blacktriangleright , or \blacktriangleleft to adjust the item.



(2) Press \odot .

The new setting appears in the AUDIO menu.



For details on each item, see "Description of adjustable items" below.

5 To adjust other items, repeat steps 3 and 4.

6 Press MENU to return to the original screen.

Description of adjustable items

Item	Press \blacktriangle or \blacktriangledown to	Press \blacktriangleright or \blacktriangleleft to
TREBLE	Decrease the treble response.	Increase the treble response.
BASS	Decrease the bass response.	Increase the bass response.
BALANCE	Emphasize the left speaker's volume.	Emphasize the right speaker's volume.

To restore the factory settings

Press RESET after displaying and selecting the AUDIO menu.

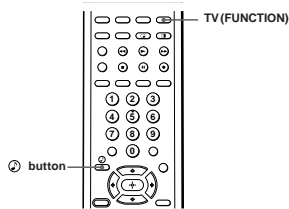
All of the settings are restored to the factory settings.

Note

- When SPEAKER (page 35) is OFF and AUDIO OUT (page 36) is in the FIXED condition, the volume, TREBLE, BASS, and BALANCE cannot be adjusted.

Using audio effect (EFFECT)

Using the \odot (audio effect) button



1 Press TV (FUNCTION).

2 Press \odot .

Each time you press the \odot button, the display changes as follows:

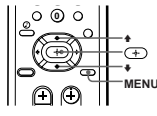
SRS \rightarrow 3D MONO \rightarrow EFFECT OFF



Choose	To
SRS	When the program's audio signal is stereo or encoded, SRS expands the material and embraces you with dynamic three-dimensional sound.
3D MONO	Receive monaural sound with a surround-like effect.
EFFECT OFF	Cancel audio effect.

EN

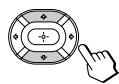
Using the menu to set audio effect



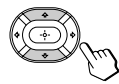
1 Press MENU.

2 Press \blacktriangle or \blacktriangledown to select \blacktriangleleft , and press \odot .

3 Press \blacktriangle or \blacktriangledown to select EFFECT, and press \odot .



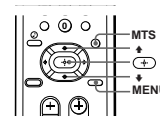
4 Press \blacktriangle or \blacktriangledown to select SRS, 3D MONO or OFF, and press \odot .



5 Press MENU to return to the original screen.

Selecting stereo or bilingual programs (MTS)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound (STEREO).



Press MTS repeatedly to select STEREO, SAP, or MONO.

STEREO \rightarrow SAP \rightarrow MONO

Choose	To
STEREO	Listen to stereo sound. The STEREO indicator on the projection TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

Note

- Stereo and SAP sounds are subject to program sources.

To set MTS using the menu

1 Press MENU.

2 Press \blacktriangle or \blacktriangledown to select \blacktriangleleft , and press \odot .

3 Press \blacktriangle or \blacktriangledown to select MTS, and press \odot .

4 Press \blacktriangle or \blacktriangledown to select STEREO, SAP, or MONO.

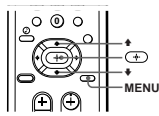
5 Press MENU to return to the original screen.

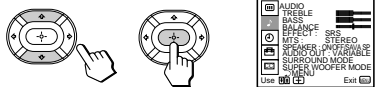
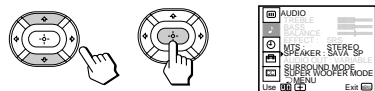
Setting the speaker switch (SPEAKER)

You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.

If you connect an amplifier with Dolby Pro Logic decoder to the CENTER SPEAKER IN terminals, you can use the projection TV speakers as center speaker. After making the connection (page 15), set SPEAKER to CENTER.

If you connect the Sony SAVA series speaker system to the AUDIO (VAR/FIX) OUT connectors, you can take advantage of the speakers' surround sound and super woofer mode. After making the connections (page 16), set SPEAKER to SAVA SP, then adjust SURROUND MODE or SUPER WOOFER MODE.



- 1 Press MENU.
- 2 Press \blacktriangle or \blacktriangledown to select ON, and press \odot .
- 3 Press \blacktriangle or \blacktriangledown to select SPEAKER, and press \odot .

- 4 Press \blacktriangle or \blacktriangledown to select ON, OFF, CENTER or SAVA SP, and press \odot .

- 5 Press MENU to return to the original screen.

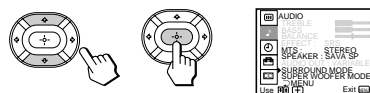
Choose	To
ON	Listen to the sound from the projection TV.
OFF	Turn off the projection TV speaker sound and listen to the projection TV's sound solely through the audio system speakers.
CENTER	Use the projection TV center speakers as the center speaker in another surround audio system.
SAVA SP	Turn off the projection TV speaker sound and listen to the projection TV's sound through the Sony SAVA series speaker system. You can adjust volume, muting, surround modes, and super woofer mode with the remote control supplied with the projection TV.

To select surround sound or super woofer mode of the SAVA speaker system

After setting SPEAKER to SAVA SP, follow the procedure below.

Press \blacktriangle or \blacktriangledown to select SURROUND MODE or SUPER WOOFER MODE, and press \odot .

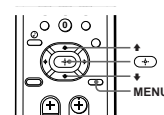
For details on each option, refer to the operating instructions of the speaker system.

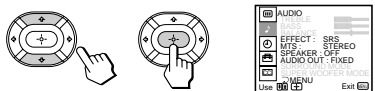



- Note**
- This feature is only for Sony SAVA speaker system with an operation capability for KP-48V75, KP-53V75, and KP-61V75.

Setting audio out (AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- 1 Press MENU.
- 2 Press \blacktriangle or \blacktriangledown to select \odot , and press \odot .
- 3 Press \blacktriangle or \blacktriangledown to select AUDIO OUT, and press \odot .

- 4 Press \blacktriangle or \blacktriangledown to select VARIABLE or FIXED, and press \odot .

- 5 Press MENU to return to the original screen.

VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

- Note**
- If AUDIO OUT appears in gray, set SPEAKER to OFF.

Setting daylight saving time (DAYLIGHT SAVING)

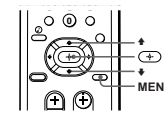
If your area uses daylight saving time, change DAYLIGHT SAVING setting depending on the season, before setting the current time.

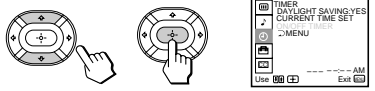
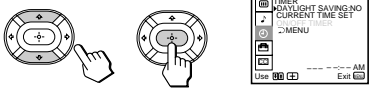
Daylight saving start

- After the first Sunday in April, set DAYLIGHT SAVING to YES. Current time setting (right column) automatically moves one hour ahead.

Daylight saving end

- After the last Sunday in October, set DAYLIGHT SAVING to NO. Current time setting automatically moves one hour back.

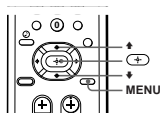


- 1 Press MENU.
- 2 Press \blacktriangle or \blacktriangledown to select \odot , and press \odot .
- 3 Press \blacktriangle or \blacktriangledown to select DAYLIGHT SAVING, and press \odot .

- 4 Press \blacktriangle or \blacktriangledown to select YES or NO, and press \odot .

- 5 Press MENU to return to the original screen.

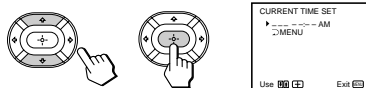
Choose	To
YES	Set for daylight saving start.
NO	Set for daylight saving end.

Setting the clock (CURRENT TIME SET)

Setting the clock enables you to turn the projection TV on and off with the timer. Make sure to set daylight saving time first.



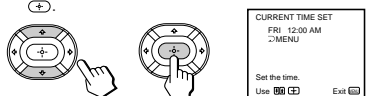
- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select \odot , and press \rightarrow .
- 3 Press \uparrow or \downarrow to select CURRENT TIME SET, and press \rightarrow .



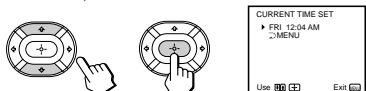
- 4 Make sure the cursor (\blacktriangleright) is to the left of "--:-- AM", and press \rightarrow .



- 5 Set the current day of the week and time.
 - (1) Press \uparrow or \downarrow to set the day of the week, and press \rightarrow .



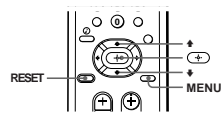
- (2) Set the hour and minutes in the same way as in step (1). When you press \rightarrow after setting the minutes, the clock starts.



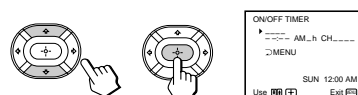
- 6 Press MENU to return to the original screen.

Setting the timer to turn the projection TV on and off (ON/OFF TIMER)

You can set the projection TV to turn on and off at the times you specify. Make sure the clock is set correctly. If it is not, set the clock first (left column).



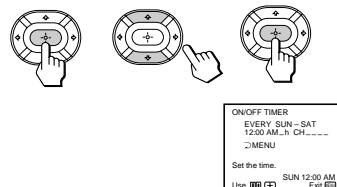
- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select \odot , and press \rightarrow .
- 3 Press \uparrow or \downarrow to select ON/OFF TIMER, and press \rightarrow .



- 4 Press \rightarrow and enter the ON/OFF TIMER setting.

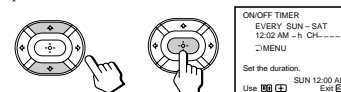
- (1) Press \uparrow or \downarrow to set the day(s), and press \rightarrow .

Each time you press \uparrow or \downarrow , the days cycle as follows:
 EVERY SUN-SAT \rightarrow EVERY MON-FRI \rightarrow
 SUNDAY \rightarrow ... \rightarrow SATURDAY \rightarrow EVERY
 SUNDAY \rightarrow ... \rightarrow EVERY SATURDAY



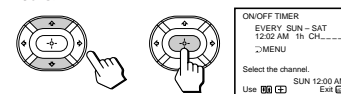
(continued)
 Operations 37-EN

- (2) Press \uparrow or \downarrow to set the time (hour then minutes) that you want to turn on the projection TV, and press \rightarrow .

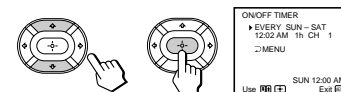


- (3) Press \uparrow or \downarrow to set the time duration, and press \rightarrow .

Each time you press \uparrow , the time duration increases by one hour up to a maximum of six hours.



- (4) Press \uparrow or \downarrow to select the channel, and press \rightarrow .



The TIMER/STANDBY indicator on the projection TV lights up.

- 5 To set the other program, press \rightarrow , and repeat step 4.
- 6 Press MENU to return to the original screen.

One minute before the projection TV turns off, the message "TV will turn off soon." is displayed on the screen.

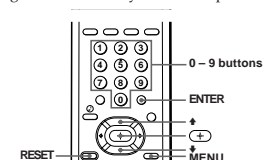
To cancel the timer
 In step 3 or 4, press RESET.

Note

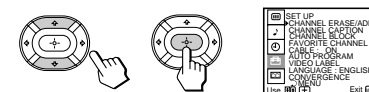
- If you unplug the projection TV or a power interruption occurs, the ON/OFF TIMER setting will be erased. Reset the current time, then set the timer.

Customizing the channel names (CHANNEL CAPTION)

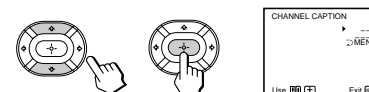
You can add a caption for up to 12 channels. This feature allows you to easily identify which channel you are watching. You can make your own caption.



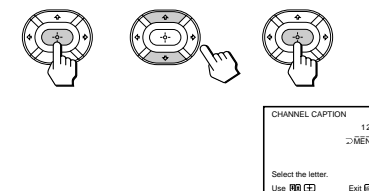
- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select \square , and press \rightarrow .



- 3 Press \uparrow or \downarrow to select CHANNEL CAPTION, and press \rightarrow .



- 4 Press \rightarrow and press \uparrow or \downarrow to select the channel that you want to caption, and press \rightarrow .

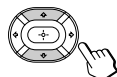


5 Enter the letters (up to four) to caption the channel:

(1) Press **+** or **-** to select the first letter.

Each time you press **+** or **-**, the letter changes as follows:

0...9+→A...Z←→&J... (blank space)



(2) Press **+**.



(3) Repeat steps (1) and (2) to select the remaining letters, and press **+**.

6 Repeat steps 4 and 5 to caption other channels.

7 Press MENU to return to the original screen.

After you customize the channel, the channel caption appears green.

To erase a caption

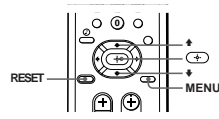
In step 5, press RESET.

Notes

- If the CHANNEL CAPTION menu appears in gray, the projection TV is set to a video input, and you cannot select CHANNEL CAPTION. Press ANT so that a channel number appears.
- If more than 90 seconds elapse after you press a button, the menu disappears automatically.
- The channel caption feature is not available for the AUX input.

Blocking out a channel (CHANNEL BLOCK)

The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.

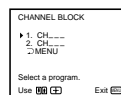
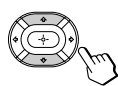


1 Press MENU.

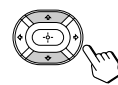
2 Press **+** or **-** to select **CH**, and press **+**.

3 Press **+** or **-** to select CHANNEL BLOCK, and press **+**.

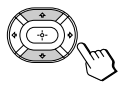
EN



4 Press **+** or **-** to select program 1 or 2, and press **+**.



5 Press **+** or **-** to select the channel which you want to block out, and press **+**.



6 Press MENU to return to the original screen.

When you select the blocked channel, the message "BLOCKED" appears on the screen.



To cancel a CHANNEL BLOCK setting
In step 4 or 5, press RESET.

Note

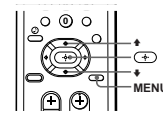
- Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from MONITOR OUT are also blocked out.

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Setting your favorite channels (FAVORITE CHANNEL)

The favorite channel feature allows your projection TV to memorize your favorite channels easily. If you set to AUTO, the last eight channels you selected with the 0-9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

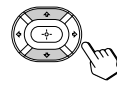
Setting your favorite channels



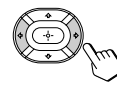
1 Press MENU.

2 Press **+** or **-** to select **CH**, and press **+**.

3 Press **+** or **-** to select FAVORITE CHANNEL, and press **+**.



4 Press **+** and press **+** or **-** to select AUTO or MANUAL, and press **+**.

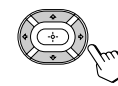


If you select AUTO, skip steps 5 to 7.

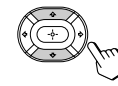
The last eight channels you selected with the 0-9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

5 Press **+**, **+**, **+** or **+** to select a favorite channel number, and press **+**.



6 Press **+** or **-** to select the channel that you want to set as your favorite channel, and press **+**.



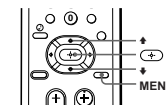
7 To set the other favorite channels, repeat steps 5 and 6.

8 Press MENU to return to the original screen.

Notes

- If more than 90 seconds elapse after you press another button, the menu disappears automatically.
- The favorite channel feature is not available for the AUX input.

Selecting your favorite channel



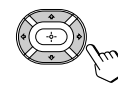
1 Press **+**.

The picture of the current channel is displayed in the center with a pink frame and the eight favorite channels are displayed around it.



2 Press **+**, **+**, **+** or **+** to move the pink frame to the channel you want to watch, and press **+**.

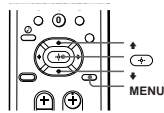
The selected channel appears on the screen.



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Setting video labels (VIDEO LABEL)

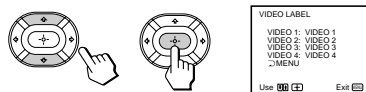
The video label feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 as VHS.



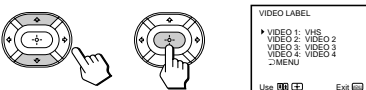
- 1 Press **MENU**.
- 2 Press **↑** or **↓** to select **VIDEO LABEL**, and press **↵**.
- 3 Press **↑** or **↓** to select **VIDEO LABEL**, and press **↵**.



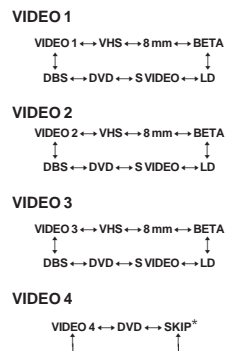
- 4 Press **↑** or **↓** to select the input mode you want to label, and press **↵**.



- 5 Press **↑** or **↓** to select the label, and press **↵**.



Each time you press **↑** or **↓**, the label changes as follows:



* The projection TV will skip the VIDEO 4 connection when you scan through video sources pressing the TV / VIDEO button.

- 6 Repeat steps 4 and 5 to label other input modes.

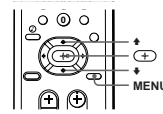
Note

- If more than 90 seconds elapse before you press another button, the menu disappears automatically.

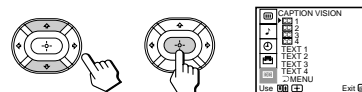
EN

Setting Caption Vision (CAPTION VISION)

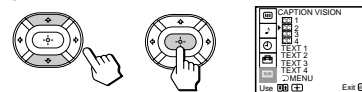
Some programs are broadcast with Caption Vision. To display Caption Vision, select either CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu. CC1, CC2, CC3, or CC4 shows you on-screen version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs.) TEXT1, TEXT2, TEXT3, or TEXT4 shows you on-screen information presented using either half or the whole screen. It is not usually related to the program.



- 1 Press **MENU**.
- 2 Press **↑** or **↓** to select **CAPTION VISION**, and press **↵**.



- 3 Press **↑** or **↓** to select the caption type, and press **↵**.



- 4 Press **MENU** to return to the original screen.

To display Caption Vision
Press **DISPLAY**. (See page 27 for details.)

Notes

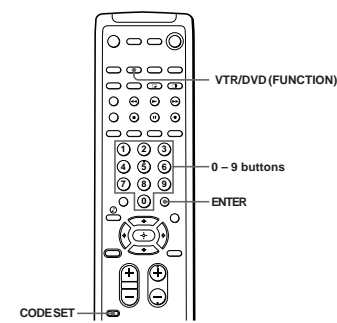
- Poor reception of TV programs can cause errors in Caption Vision and XDS.
- Captions may appear with a white box or other errors instead of a certain word.
- XDS, Caption Vision, and the status display cannot be used at the same time.
- For details on XDS, see page 27.

42-EN Operations

Operating video equipment

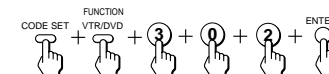
You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared remote sensor. For this operation, set the manufacturer's code number.

Setting the manufacturer's code



Press the **CODE SET**, **VTR/DVD (FUNCTION)**, and **0 - 9** buttons to enter the manufacturer's code number (see the chart on page 43), then press **ENTER**.

For example, to operate a Sony 8 mm VCR, press **CODE SET**, **VTR/DVD (FUNCTION)**, **3**, **0**, **2**, and **ENTER**.



Operations 41-EN

VCR manufacturer code numbers

Manufacturer	Code number
Sony	301, 302, 303
Aiwa	338
Audio Dynamic	314, 337
Bell & Howell (M. Wards)	330, 343
Brocsonic	319
Canon	309, 308
Citizen	332
Craig	315, 302, 332
Curtis Mathis	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317, 318
Fisher	330, 334, 335, 333
Funai	338
General Electric	329, 304, 309
Goldstar	332
Hitachi	306, 304, 305
Instant Replay	309, 308
JC Penny	309, 305, 304, 330, 314, 336, 337
JVC	314, 336, 337
Kenwood	314, 336, 332, 337
LXI (Sears)	332, 305, 333, 334, 330, 335
Magnavox	308, 309
Marantz	314, 336, 337
Marta	332
Memorex	309, 335
Minolta	305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 338, 321
NEC	314, 336, 337
Olympic	309, 308
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309
Pioneer	308
Quasar	308, 309
RCA/PROSCAN	304, 305, 308, 309, 311, 312, 313
Realistic	309, 330, 328, 335, 324, 338
Sansui	314
Singer	315
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335, 323, 324, 325, 326
Sharp	327, 328
Shintom	315
Signature 2000 (M. Wards)	338, 327
Sylvania	308, 309, 338
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331, 332
Yamaha	330, 314, 336, 337
Zenith	331

MDP manufacturer code numbers

Manufacturer	Code number
Sony	701
Kenwood	707
Magnavox	703
Maranz	702
Mitsubishi	702
Panasonic	704
Philips	703
Pioneer	702
RCA	702
Sanyo	706
Sharp	705
Yamaha	703

DVD manufacturer code numbers

Manufacturer	Code number
Sony	751

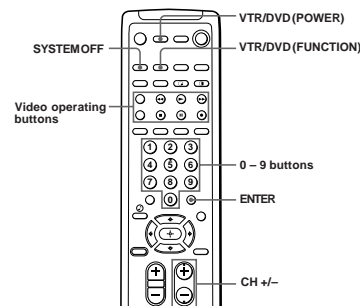
Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. This is because your equipment may use a code that is not included with this remote control. In this case, please use the equipment's own remote control unit.
- The code numbers for Sony equipment are assigned at the factory as follows:

VHS VCR	301 (preset code for the supplied remote control)
8 mm VCR	302
Beta, ED Beta VCRs	303
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code number may revert to the factory setting and must be reset.

EN

Operating video equipment



Use the video operating buttons on the remote control to operate the video equipment. Press VTR/DVD (FUNCTION) before operating the video equipment.

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To select a channel directly	Press the 0-9 buttons.
To change channels	Press CH +/-.
To record	Press ► while pressing ●. First release ►, then release ●.
To play	Press ►.
To stop	Press ■.
To fast forward	Press ►►.
To rewind the tape	Press ◄◄.
To pause	Press II.
	To resume normal playback, press again.
To search the picture forward or backward	Press ►► or ◄◄ during playback.
	To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press II.
	To resume normal playback, press again.
To search the picture forward or backward	Keep pressing ►► or ◄◄ during playback.
	To resume normal playback, release the button.
To search the chapter forward and backward	Press CH +/-.

Operating an DVD	Buttons on the remote control
To turn on or off	Press VTR/DVD (POWER).
To play	Press ►.
To stop	Press ■.
To pause	Press II.
	To resume normal playback, press again.
To search the picture forward or backward	Keep pressing ►► or ◄◄ during playback.
	To resume normal playback, release the button.

Note

- If the video equipment does not have a certain function, the corresponding button on this remote control will not operate.

Turning off the system

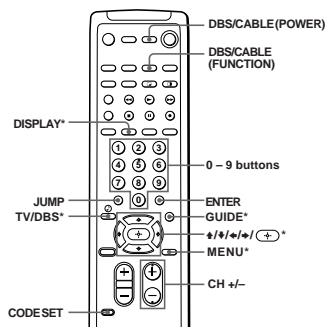
You can turn off the projection TV and Sony equipment with the S-Link function, such as a VCR, together when you make the S-Link connection (see pages 17 and 18 for the connection).

Press SYSTEM OFF.



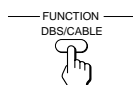
Operating a cable box or DBS receiver

You can program the supplied remote control to operate a cable box or DBS receiver. Follow the procedures below to set the manufacturer's code number in the remote control.

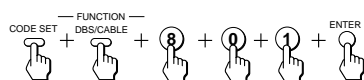


* The TV / DBS, GUIDE, DISPLAY, $\uparrow/\downarrow/\leftarrow/\rightarrow$, and MENU buttons can be used only with a DBS receiver.

- 1 Turn off the equipment you want to set up, and press DBS/CABLE (FUNCTION).



- 2 Press the CODE SET, DBS/CABLE (FUNCTION), and 0 - 9 buttons to enter the manufacturer's code number (see the chart on the right column), then press ENTER. For example, to program your remote control to operate a Sony DBS receiver, press CODE SET, DBS/CABLE (FUNCTION), 8, 0, 1, and ENTER.



- 3 Press DBS/CABLE (POWER) to turn on the cable box or DBS receiver.



- 4 Use the cable box/DBS control buttons to check if the code number works.

For example, to operate a cable box or DBS receiver, you can use the DBS/CABLE (POWER), JUMP, CH +/-, 0 - 9 and ENTER buttons.

Note

- If the cable box or DBS receiver does not have a certain function, the corresponding button on this remote control will not operate.

To operate the projection TV

Press TV (FUNCTION). Then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

If the remote control doesn't work

- First, try repeating the setup procedures using the other codes listed for your equipment.

Manufacturer code numbers (cable box)

Manufacturer	Code number
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G. I.	201, 202, 203, 204, 205, 206, 207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for the supplied remote control)
RCA	802

Notes

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, your equipment may use a code that is not provided with this remote control and you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- Whenever you remove the batteries — to replace them, for example — if too much time is taken, the code numbers may revert to the factory setting and must be reset.

Additional Information

Troubleshooting

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- Make sure the power cord is connected securely.
- Operate with the buttons on the projection TV.
- Insert the batteries in the remote control with the correct polarity.
- Replace the batteries with new ones if they are weak.
- Check to see if the TV / VIDEO setting is correct: when watching TV, set to TV, and when watching video input pictures, set to VIDEO 1, 2, 3, or 4.
- Try another channel. It could be station trouble.
- Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 21)

Poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (page 30)
- Adjust BRIGHTNESS in the VIDEO menu. (page 30)
- Adjust convergence. (page 23)
- Check antenna / cable connections. (page 6)
- Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 21)
- Remove objects from the front of the projection TV.

Good picture, no sound

- Press MUTE so that "MUTING" disappears from the screen. (page 26)
- Check the MTS setting in the AUDIO menu. (page 34)
- Make sure SPEAKER is set to ON in the AUDIO menu. (page 35)
- Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 21)

No color

- Adjust the COLOR in the VIDEO menu. (page 31)
- Confirm that black and white program is not being broadcast.
- Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 21)

Only snow and noise appear on the screen

- Check the CABLE setting in the SET UP menu. (page 24)
- Check the antenna / cable connections. (page 6)
- Make sure the channel is broadcasting programs.
- Press ANT to change the input mode. (page 27)

Dotted lines or stripes

- Adjust the antenna.
- Move the projection TV away from noise sources such as cars, neon signs, and hair-dryers.

Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- If the item you want to choose appears in gray, you cannot select it. Press TV / VIDEO correctly.
- Check the CABLE setting in the SET UP menu. (page 24)

Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the SET UP menu. (page 24)
- Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 21, 25)

Cannot receive any channels when using cable TV

- Make sure CABLE is ON in the SET UP menu. (page 24)
- Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 21, 25)

Remote control does not operate

- Batteries could be weak. Replace the batteries. (page 20)
- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Press TV (FUNCTION) when operating your projection TV.
- Are fluorescent lights too close to the projection TV? Move them at least 3-4 feet away from the projection TV.

Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

Projection TV malfunctions when using the S-Link function

- Make sure the projection TV's power cord is connected securely to the wall outlet.
- Check the S-Link connection. (pages 17, 18)

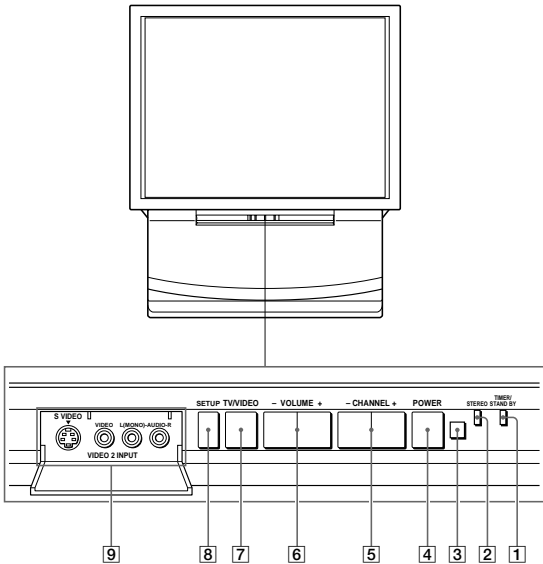
The projection TV needs to be cleaned

- Clean the projection TV with a soft dry cloth. Never use strong solvents such as thinner or benzene, which might damage the finish of the cabinet.

Index to parts and controls

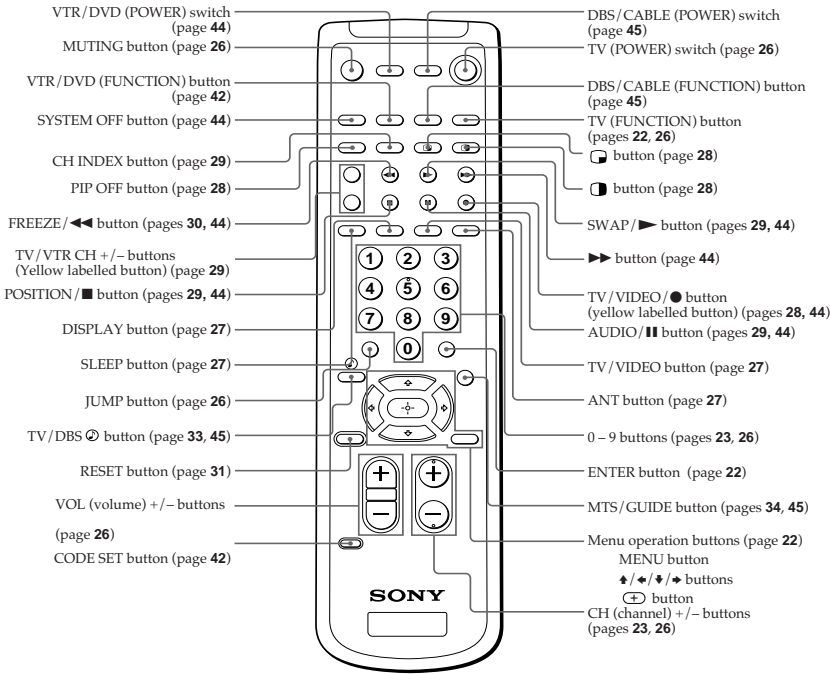
This section briefly describes the buttons and controls on the projection TV and on the remote control. For more information, refer to the pages next to each description.

Projection TV — Front



- 1 TIMER/STANDBY indicator (pages 26, 38)
- 2 STEREO indicator (page 34)
- 3 Remote sensor
- 4 POWER switch (page 21)
- 5 CHANNEL +/- buttons (page 21)
- 6 VOLUME +/- buttons (page 21)
- 7 TV / VIDEO button (page 21, 22)
- 8 SETUP button (page 21)
- 9 S VIDEO/VIDEO 2 INPUT (VIDEO/ AUDIO L(MONO)/R) jacks (page 10)

Remote control



EN

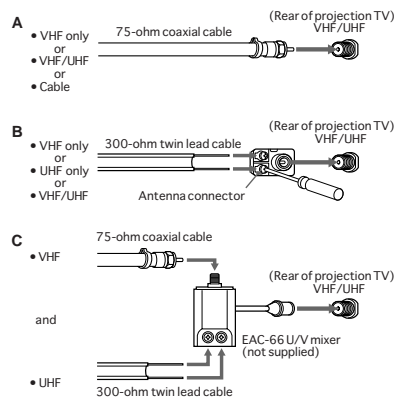
The Instruction Manual of KP-41T65K/41T65T/53S65T

Step 2: Hookup

Although you can use either an indoor or outdoor antenna with your projection TV, we recommend that you connect an outdoor antenna or a cable TV system to get better picture quality.

Connecting an antenna

Connect your antenna cable to the VHF/UHF antenna terminal. If you cannot connect your antenna cable directly to the terminal, follow one of the instructions below depending on your cable type.

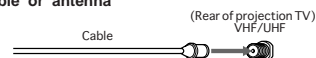


Notes

- Most VHF/UHF combination antennas have a signal splitter. Remove the splitter before attaching the appropriate connector.
- If you use the U/V mixer, snow and noise may appear in the picture when viewing cable TV channels over 37.

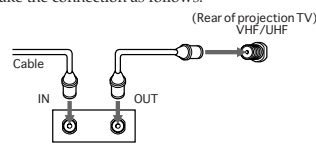
Connecting an antenna/cable TV system without a VCR

To cable or antenna

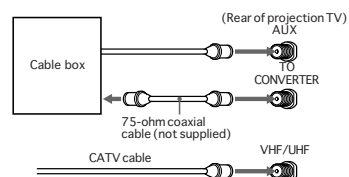


To cable box

If your cable company requires you to connect a cable box, make the connection as follows:



To cable box and cable



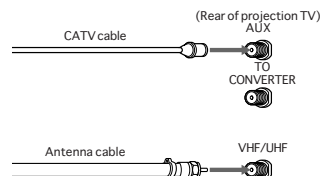
Pay cable TV systems use scrambled or encoded signals requiring a cable box* in addition to the normal cable connection.

* The cable box will be supplied by the cable company.

Note

- You cannot watch the signal through an AUX connector as a window picture.

To cable and antenna



Note

- Do not connect anything to the TO CONVERTER connector in this case.

Connecting an antenna/cable TV system with a VCR

For details on connection, see your VCR instruction manual.

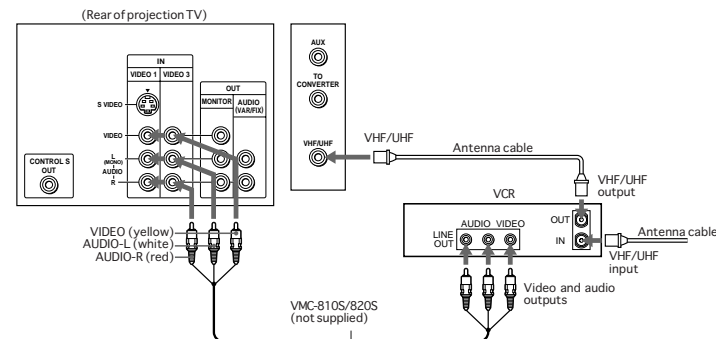
Before making the connection, disconnect the AC power cords of the equipment to be connected.

To a conventional VCR

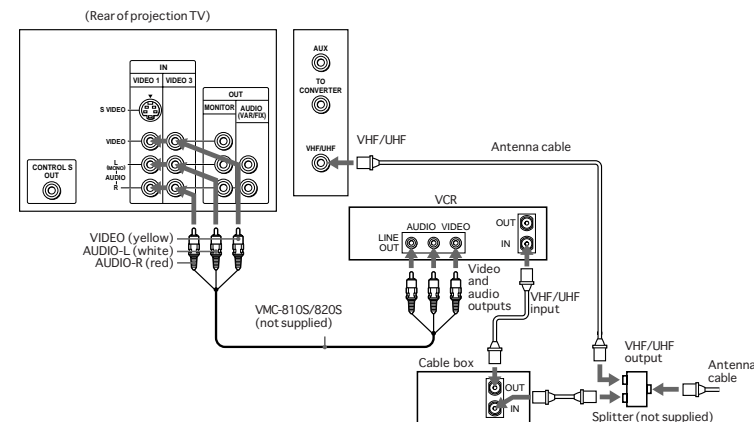
Notes

- To connect a monaural VCR, connect the audio output of the VCR to AUDIO-L (MONO) of VIDEO 1/2/3 IN on the projection TV.

Without a cable box

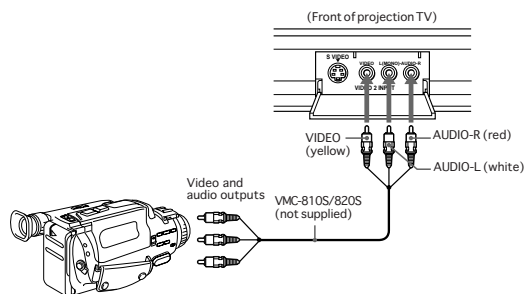


With a cable box



Connecting a camcorder

Use this connection to view a camcorder picture.

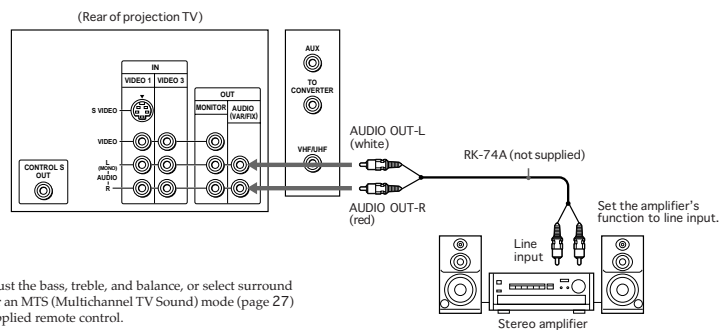


Note

- To connect a monaural camcorder, connect the audio output of the camcorder to AUDIO-L (MONO) of VIDEO 2 INPUT on the projection TV.

Connecting an audio system

When connecting audio equipment, see page 28 for more information.

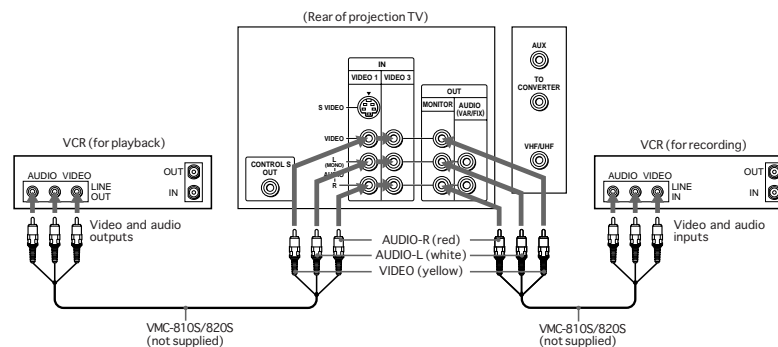


Note

- You can adjust the bass, treble, and balance, or select surround (page 26) or an MTS (Multichannel TV Sound) mode (page 27) with the supplied remote control.

Connecting two VCRs for tape editing using MONITOR OUT

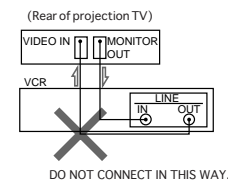
You can record input images displayed on the screen. This type of connection should be used only when you connect from the line input of one VCR, and from the line output of a second VCR.



Notes


- Do not change the input signal while editing through MONITOR OUT, or the output signal will also change.
- You can use the S video jack to connect a VCR for playback and the composite video connector to connect a VCR for recording.

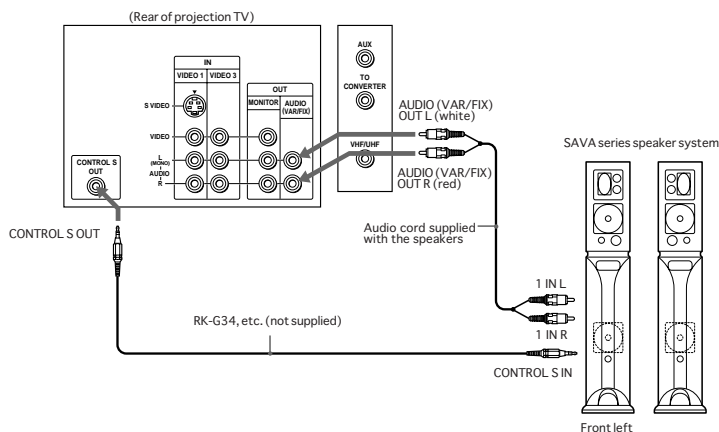
- When connecting a single VCR to the projection TV, do not connect the MONITOR OUT to the VCR's line input, while at the same time connecting from the projection TV's VIDEO IN connectors to the VCR's line output, as shown below.



Connecting a Sony SAVA series speaker system

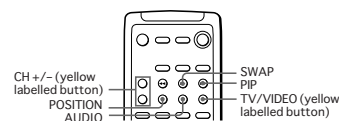
If you have a Sony SAVA series speaker system, connect your speakers to the AUDIO (VAR/FIX) OUT jacks on the rear of the projection TV with the audio cable supplied with the speakers. You can take advantage of the speakers' Dolby Pro Logic® surround system and super woofer mode, and control them with the supplied remote control. When connecting a Sony SAVA series speaker system, see page 27 for more information.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. "Dolby," the double-D symbol  and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.



Watching two programs at one time — PIP

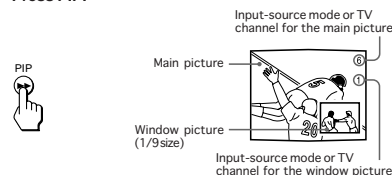
The Picture-in-Picture (PIP) feature allows you to watch both the main picture and a window picture simultaneously.



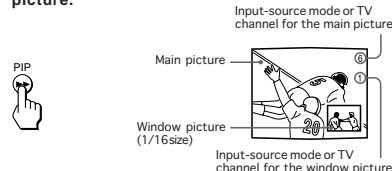
Use the yellow labelled buttons for PIP operations.

Displaying a window picture

Press PIP.



Press PIP again to display a smaller window picture.



To remove the window picture, press PIP again.

Note

- The window picture may be affected by the condition of the main picture.

Changing the window picture input mode

Press TV/VIDEO (yellow labelled button) to select the input mode.

Each time you press TV/VIDEO (yellow labelled button), "TV", "VIDEO 1", "VIDEO 2", and "VIDEO 3" appear in sequence.




A window picture will appear in the same input mode as the last time you used PIP.

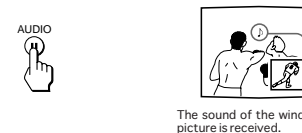
Note


- If you connect your VCR without a cable box, your PIP input source is a VCR. If you connect your VCR with a cable box, your PIP input source is a VCR or cable box.

Listening to the sound of the window picture

Press AUDIO.

The  display appears next to the PIP channel number for a few seconds, indicating that the window picture sound is being received.



To restore the main picture sound, press AUDIO again. The  display moves to the main picture channel number.

Changing TV channels in the window picture

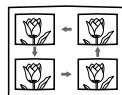
Press CH +/- (yellow labelled button).



Changing the position of the window picture

Press POSITION.

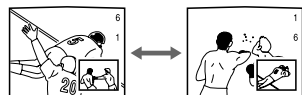
Each time you press POSITION, the window picture will move counterclockwise on the screen.



Swapping the main and window pictures

Press SWAP.

Each time you press SWAP, the images and sound from the main and window pictures switch places with another.

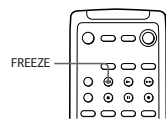


Note

- The channels being received through the AUX connector cannot be displayed as a window picture.

Freezing the picture (FREEZE)

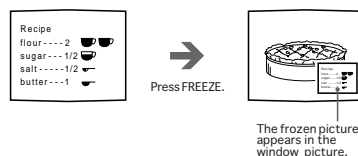
The FREEZE feature is useful when you want to write down an information such as a recipe from a cooking program, a displayed address, or a phone number. The frozen picture changes as follows depending on whether the PIP function is used or not.



Press FREEZE.

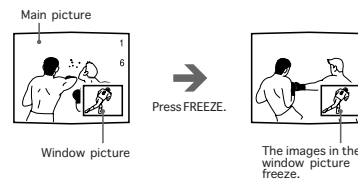


When the PIP function is not being used



To remove the frozen window picture, press FREEZE again.

When the PIP function is being used

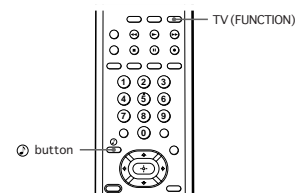


To cancel the frozen window picture, press FREEZE again.

Using audio effect (SURROUND)

The audio effect (SURROUND) feature simulates sound reproduction with the atmosphere of a movie theater or a concert hall. Audio effect is only effective for stereo programs.

Using the Q (audio effect) button



1 Press TV (FUNCTION).

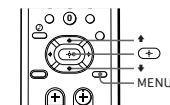
2 Press Q.

Each time you press the Q button, the display changes as follows:

SURROUND → SURROUND OFF



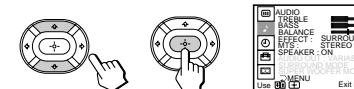
Using the menu to set audio effect



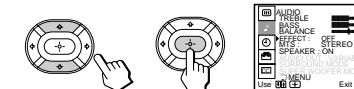
1 Press MENU.

2 Press + or - to select J, and press +.

3 Press + or - to select EFFECT, and press +.



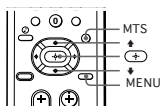
4 Press + or - to select the audio effect mode, and press +.



5 Press MENU to return to the original screen.

Selecting stereo or bilingual programs (MTS)

The Multichannel TV Sound (MTS) feature allows you to enjoy stereo sound or Second Audio Programs (SAP) of your choice. The initial setting is stereo sound (STEREO).



Press MTS repeatedly to select STEREO, SAP, or MONO.

STEREO → SAP → MONO

Choose	To
STEREO	Listen to stereo sound. The STEREO indicator on the projection TV lights up when a stereo broadcast is received.
SAP	Listen to bilingual programs. There is no sound when the SAP signal is not broadcasting.
MONO	Listen to monaural sound. Reduce noise during stereo broadcasts.

Note

- Stereo and SAP sounds are subject to program sources.

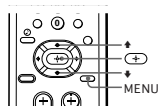
To set MTS using the menu

- Press MENU.
- Press \blacktriangle or \blacktriangledown to select \mathbf{J} , and press \oplus .
- Press \blacktriangle or \blacktriangledown to select MTS, and press \oplus .
- Press \blacktriangle or \blacktriangledown to select STEREO, SAP, or MONO.
- Press MENU to return to the original screen.

Setting the speaker switch (SPEAKER)

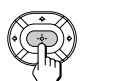
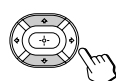
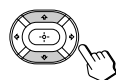
You may switch off the projection TV speakers when, for example, you want to listen to the sound through a stereo system.

If you connect the Sony SAVA series speaker system to the AUDIO (VAR/FIX) OUT connectors, you can take advantage of the speakers' surround sound and super woofer mode. After making the connections (page 12), set SPEAKER to SAVA SPEAKER, then adjust SURROUND MODE or SUPER WOOFER MODE.



EN

- Press MENU.
- Press \blacktriangle or \blacktriangledown to select \mathbf{J} , and press \oplus .
- Press \blacktriangle or \blacktriangledown to select SPEAKER, and press \oplus .
- Press \blacktriangle or \blacktriangledown to select ON, OFF, or SAVA SP, and press \oplus .



- Press MENU to return to the original screen.

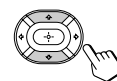
Choose	To
ON	Listen to the sound from the projection TV.
OFF	Turn off the projection TV speaker sound and listen to the projection TV's sound solely through the audio system speakers.
SAVA SP	Turn off the projection TV speaker sound and listen to the projection TV's sound through the Sony SAVA series speaker system. You can adjust volume, muting, surround modes, and super woofer mode with the remote control supplied with the projection TV.

To select surround sound or super woofer mode of the SAVA speaker system

After setting SPEAKER to SAVA SP, follow the procedure below.

Press \blacktriangle or \blacktriangledown to select SURROUND MODE or SUPER WOOFER MODE, and press \oplus .

For details on each option, refer to the operating instructions of the speaker system.

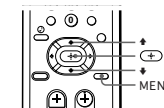


Note

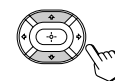
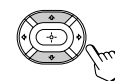
- This feature is only for Sony SAVA speaker system with an operation capability for KP-41T65, KP-46C65, KP-48S65, KP-53S65, and KP-61S65.

Setting audio out (AUDIO OUT)

You can change AUDIO OUT to VARIABLE or FIXED when SPEAKER is set to OFF. AUDIO OUT is variable when SPEAKER is set to ON.



- Press MENU.
- Press \blacktriangle or \blacktriangledown to select \mathbf{J} , and press \oplus .
- Press \blacktriangle or \blacktriangledown to select AUDIO OUT, and press \oplus .
- Press \blacktriangle or \blacktriangledown to select VARIABLE or FIXED, and press \oplus .



VARIABLE: Sound output varied according to the projection TV settings. You can adjust the volume, bass, treble, and balance.

FIXED: Sound output is always fixed to a certain level. The volume, bass, treble, and balance are also fixed to the factory settings.

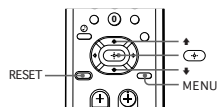
- Press MENU to return to the original screen.

Note

- If AUDIO OUT appears in gray, set SPEAKER to OFF.

Blocking out a channel (CHANNEL BLOCK)

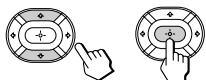
The channel block feature allows you to prevent children from watching unsuitable programs. You can block out two channels.



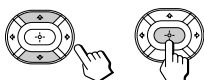
- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select and press \rightarrow .
- 3 Press \uparrow or \downarrow to select CHANNEL BLOCK, and press \rightarrow .



- 4 Press \uparrow or \downarrow to select program 1 or 2, and press \rightarrow .



- 5 Press \uparrow or \downarrow to select the channel which you want to block out, and press \rightarrow .



- 6 Press MENU to return to the original screen. When you select the blocked channel, the message "BLOCKED" appears on the screen.



To cancel a CHANNEL BLOCK setting
In step 4 or 5, press RESET.

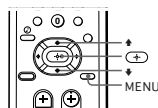
Note

- Once you use CHANNEL BLOCK, Caption Vision and XDS of the blocked channel and the selected channel output from MONITOR OUT are also blocked out.

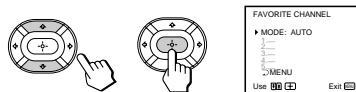
Setting your favorite channels (FAVORITE CHANNEL)

The favorite channel feature allows your projection TV to memorize your favorite channels easily. If you set to AUTO, the last five channels you selected with the 0-9 buttons are automatically set as your favorite channels. If you want to input your own selection of channels, set to MANUAL.

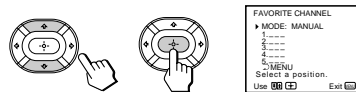
Setting your favorite channels



- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select and press \rightarrow .
- 3 Press \uparrow or \downarrow to select FAVORITE CHANNEL, and press \rightarrow .



- 4 Press \rightarrow and press \uparrow or \downarrow to select AUTO or MANUAL, and press \rightarrow .



If you select AUTO, skip steps 5 and 6. The last five channels you selected with the 0-9 buttons are automatically set as your favorite channels.

If you select MANUAL, the favorite channel numbers become white, indicating that favorite channels can be entered.

- 5 Press \uparrow or \downarrow to select a favorite channel number, and press \rightarrow .



- 6 Press \uparrow or \downarrow to select the channel that you want to set as your favorite channel, and press \rightarrow .

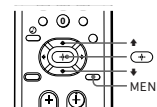


- 7 Press MENU to return to the original screen.

Notes

- If the FAVORITE CHANNEL menu appears in gray, the projection TV is set to a video input and you cannot select FAVORITE CHANNEL.
- If more than 90 seconds elapse after you press another button, the menu disappears automatically.
- The favorite channel feature is not available for the AUX input.

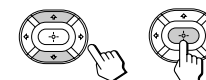
Selecting your favorite channel



- 1 Press \rightarrow . The FAVORITE CHANNEL menu appears.



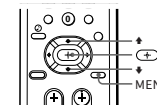
- 2 Press \uparrow or \downarrow to select the favorite channel you want to watch, and press \rightarrow . The selected channel appears on the screen.



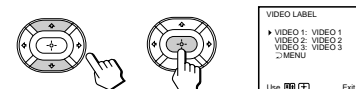
To cancel the FAVORITE CHANNEL menu
Press \uparrow or \downarrow to select "Exit," and press \rightarrow .

Setting video labels (VIDEO LABEL)

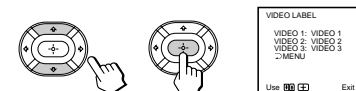
The video label feature allows you to label each input mode so that you can easily identify the connected equipment. For example, you can label VIDEO 1 as VHS.



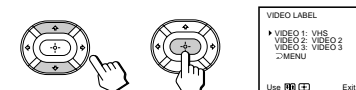
- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select and press \rightarrow .
- 3 Press \uparrow or \downarrow to select VIDEO LABEL, and press \rightarrow .



- 4 Press \uparrow or \downarrow to select the input mode you want to label, and press \rightarrow .



- 5 Press \uparrow or \downarrow to select the label, and press \rightarrow .



Troubleshooting

If the problem persists after trying the methods below, contact your nearest Sony dealer.

No picture (screen not lit), no sound

- ➔ Make sure the power cord is connected securely.
- ➔ Operate with the buttons on the projection TV.
- ➔ Insert the batteries in the remote control with the correct polarity.
- ➔ Replace the batteries with new ones if they are weak.
- ➔ Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3.
- ➔ Try another channel. It could be station trouble.
- ➔ Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Poor or no picture (screen lit), good sound

- ➔ Adjust PICTURE in the VIDEO menu. (page 23)
- ➔ Adjust BRIGHTNESS in the VIDEO menu. (page 23)
- ➔ Adjust convergence. (page 16)
- ➔ Check antenna/cable connections. (page 6)
- ➔ Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)
- ➔ Remove objects from the front of the projection TV.

Good picture, no sound

- ➔ Press MUTE so that "MUTING" disappears from the screen. (page 19)
- ➔ Check the MTS setting in the AUDIO menu. (page 27)
- ➔ Make sure SPEAKER is set to ON in the AUDIO menu. (page 27)
- ➔ Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

No color

- ➔ Adjust the COLOR in the VIDEO menu. (page 23)
- ➔ Confirm that black and white program is not being broadcast.
- ➔ Perform AUTO SET UP again using the SETUP button to return to the factory preset condition. (page 14)

Only snow and noise appear on the screen

- ➔ Check the CABLE setting in the SET UP menu. (page 17)
- ➔ Check the antenna/cable connections. (page 6)
- ➔ Make sure the channel is broadcasting programs.
- ➔ Press ANT to change the input mode. (page 20)

Dotted lines or stripes

- ➔ Adjust the antenna.
- ➔ Move the projection TV away from noise sources such as cars, neon signs, and hair-dryers.

Double images or ghosts

- ➔ Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

Cannot operate menu

- ➔ If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.
- ➔ Check the CABLE setting in the SET UP menu. (page 17)

Cannot receive upper channels (UHF) when using an antenna

- ➔ Make sure CABLE is OFF in the SET UP menu. (page 17)
- ➔ Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Cannot receive any channels when using cable TV

- ➔ Make sure CABLE is ON in the SET UP menu. (page 17)
- ➔ Use AUTO PROGRAM to add receivable channels that are not presently in projection TV memory. (pages 14, 18)

Remote control does not operate

- ➔ Batteries could be weak. Replace the batteries. (page 13)
- ➔ Make sure the projection TV's power cord is connected securely to the wall outlet.
- ➔ Press TV (FUNCTION) when operating your projection TV.
- ➔ Are fluorescent lights too close to the projection TV? Move them at least 3-4 feet away from the projection TV.

Cannot gain enough volume when using a cable box

- ➔ Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the projection TV's volume.

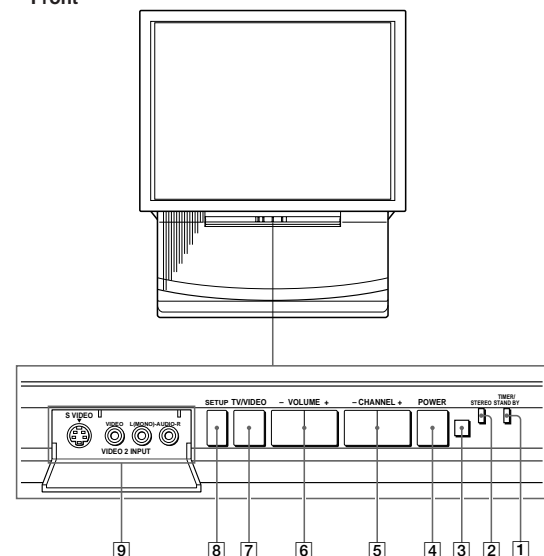
The projection TV needs to be cleaned

- ➔ Clean the projection TV with a soft dry cloth. Never use strong solvents such as thinner or benzine, which might damage the finish of the cabinet.

Index to parts and controls

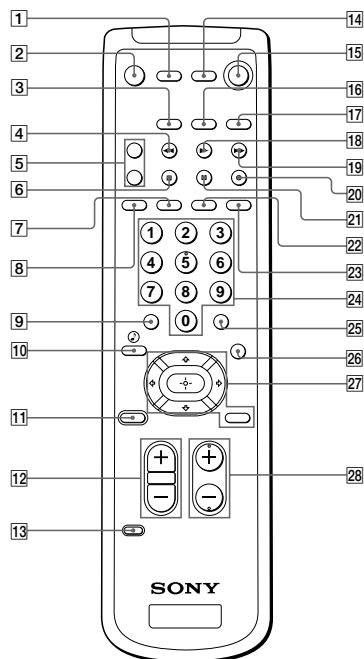
This section briefly describes the buttons and controls on the projection TV and on the Remote control. For more information, refer to the pages next to each description.

Projection TV — Front



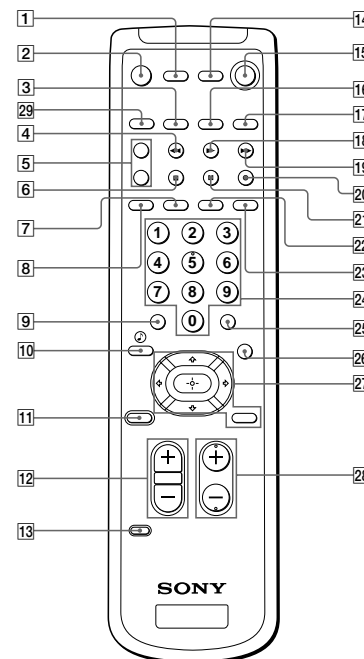
- | | |
|--|---|
| ① TIMER/STANDBY indicator (pages 19, 30) | ⑥ VOLUME +/- buttons (page 14) |
| ② STEREO indicator (page 27) | ⑦ TV/VIDEO button (page 14, 15) |
| ③ Remote sensor | ⑧ SETUP button (page 14) |
| ④ POWER switch (page 14) | ⑨ S VIDEO/VIDEO 2 INPUT (VIDEO/AUDIO L(MONO)/R) jacks (page 10) |
| ⑤ CHANNEL +/- buttons (page 14) | |

Remote control (RM-Y136A)



- | | |
|--|---|
| 1 VTR (POWER) switch (page 36) | 17 TV (FUNCTION) button (pages 15, 19) |
| 2 MUTE button (page 19) | 18 SWAP button (page 22) |
| 3 VTR (FUNCTION) button (page 35) | 19 PIP button (page 21) |
| 4 FREEZE button (page 22) | 20 TV / VIDEO button (yellow labelled button) (page 21) |
| 5 TV / VTR CH +/- buttons (Yellow labelled button) (page 21) | 21 AUDIO button (page 21) |
| 6 POSITION button (page 22) | 22 TV / VIDEO button (page 20) |
| 7 DISPLAY button (page 20) | 23 ANT button (page 20) |
| 8 SLEEP button (page 20) | 24 0 - 9 buttons (page 16) |
| 9 JUMP button (page 19) | 25 ENTER button (page 16) |
| 10 TV / DBS \odot button (page 26, 37) | 26 MTS / GUIDE button (page 27, 37) |
| 11 RESET button (page 23) | 27 Menu operation buttons (page 15) |
| 12 VOL (volume) +/- buttons (page 19) | MENU button |
| 13 CODE SET button (page 35) | $\blacktriangle/\blacklozenge/\blacktriangleright/\blacktriangleleft$ buttons |
| 14 DBS / CABLE (POWER) switch (page 37) | \odot button |
| 15 TV (POWER) switch (page 19) | 28 CH (channel) +/- buttons (pages 16, 19) |
| 16 DBS / CABLE (FUNCTION) button (page 37) | |

Remote control (RM-Y149A)



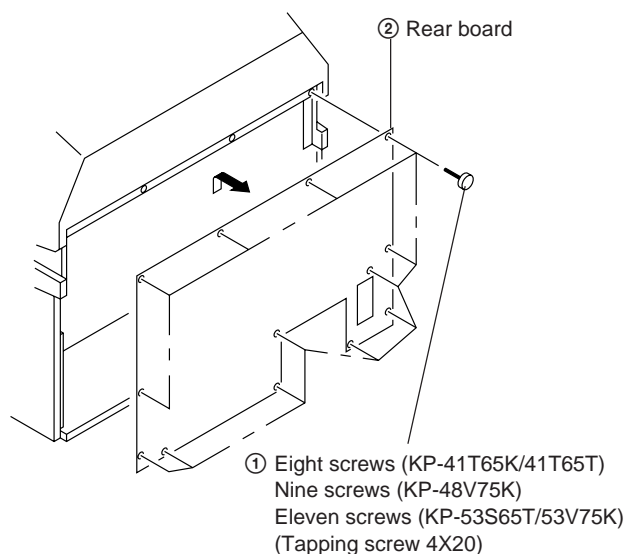
- | | |
|--|---|
| 1 VTR (POWER) switch | 17 TV (FUNCTION) button |
| 2 MUTE button | 18 SWAP button |
| 3 VTR (FUNCTION) button | 19 PIP button |
| 4 FREEZE button | 20 TV / VIDEO button (yellow labelled button) |
| 5 TV / VTR CH +/- buttons (Yellow labelled button) | 21 AUDIO button |
| 6 POSITION button | 22 TV / VIDEO button |
| 7 DISPLAY button | 23 ANT button |
| 8 SLEEP button | 24 0 - 9 buttons |
| 9 JUMP button | 25 ENTER button |
| 10 TV / DBS \odot button | 26 MTS / GUIDE button |
| 11 RESET button | 27 Menu operation buttons |
| 12 VOL (volume) +/- buttons | MENU button |
| 13 CODE SET button | $\blacktriangle/\blacklozenge/\blacktriangleright/\blacktriangleleft$ buttons |
| 14 DBS / CABLE (POWER) switch | \odot button |
| 15 TV (POWER) switch | 28 CH (channel) +/- buttons |
| 16 DBS / CABLE (FUNCTION) button | 29 SYSTEM OFF button |

KP-41T65K/41T65T/48V75K/53S65T/53V75K
RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

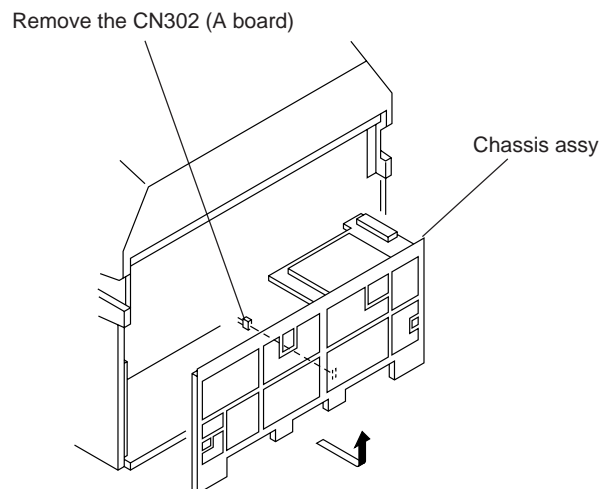
SECTION 2

DISASSEMBLY

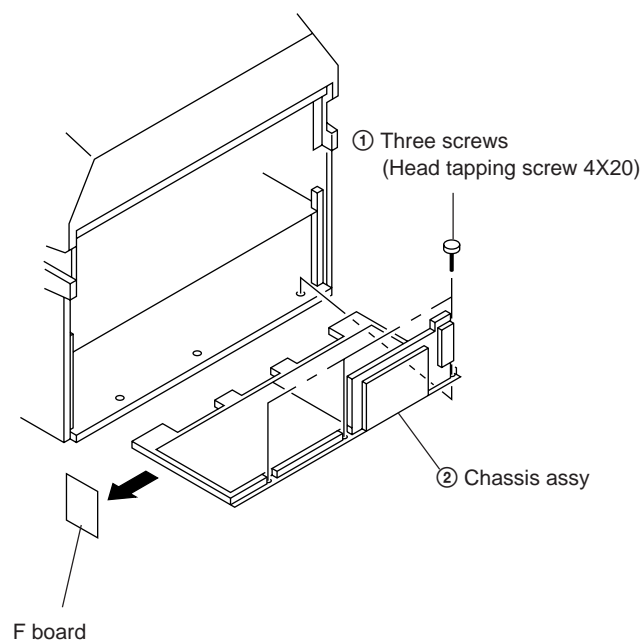
2-1. REAR BOARD REMOVAL



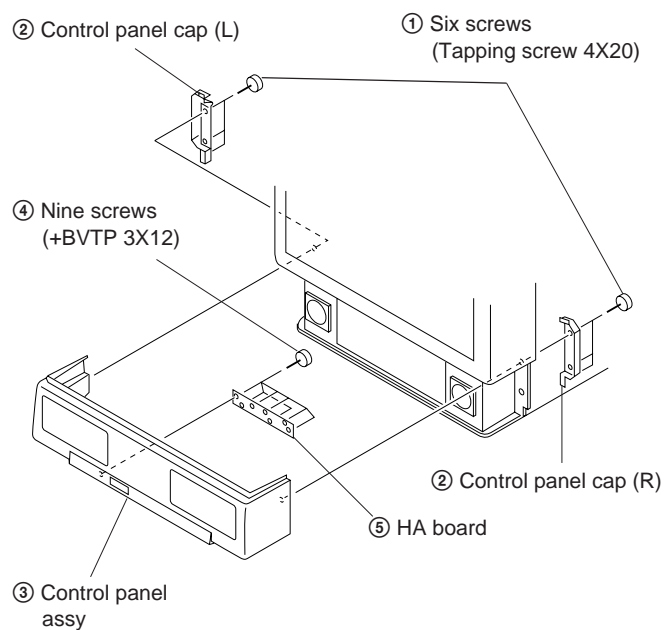
2-3. SERVICE POSITION



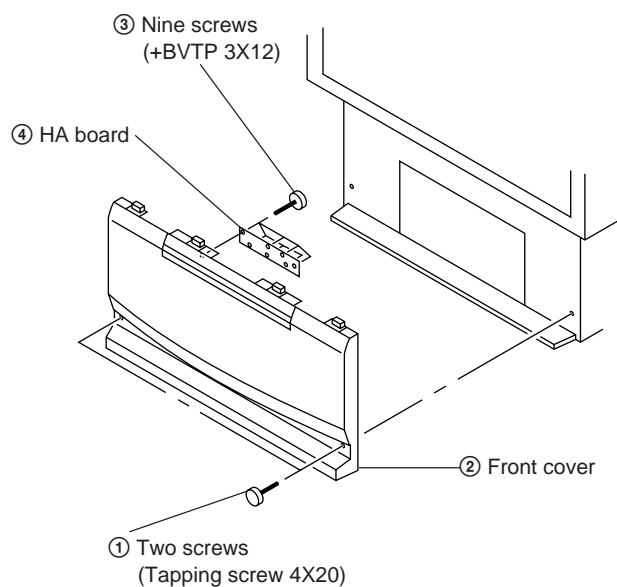
2-2. CHASSIS ASSY REMOVAL



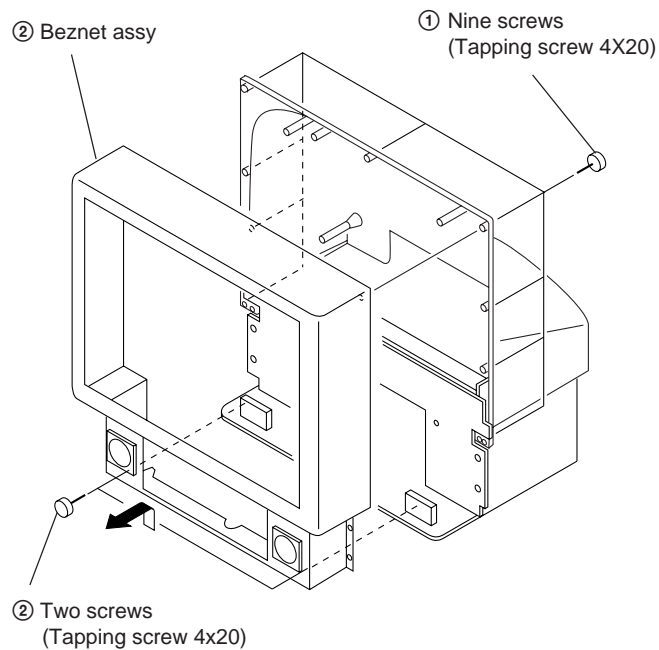
2-4-1. HA BOARD REMOVAL (KP-41T65K/41T65T)



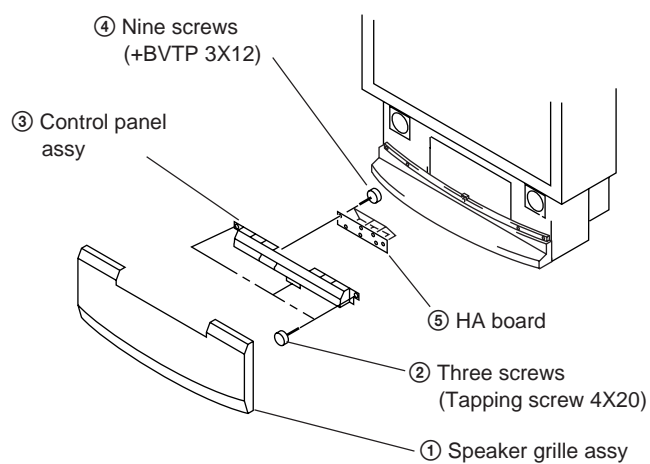
2-4-2. HA BOARD REMOVAL (KP-53S65T)



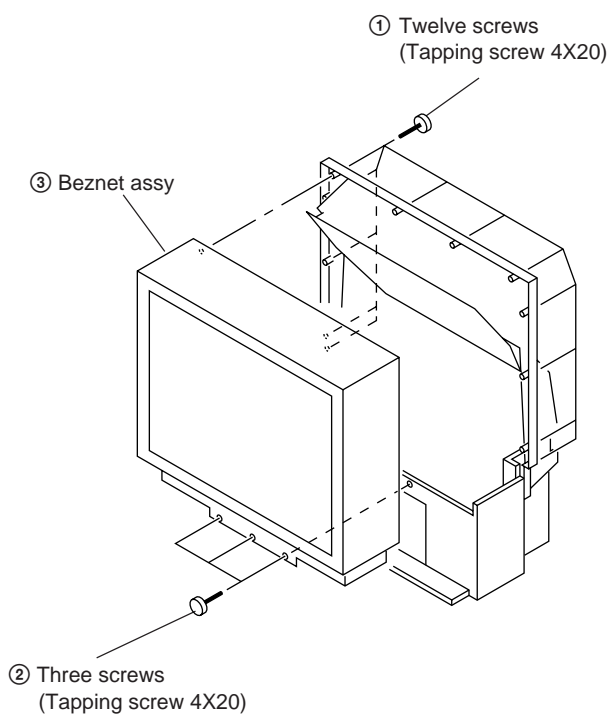
2-5-1. BEZNET ASSY REMOVAL (KP-41T65K/41T65T)



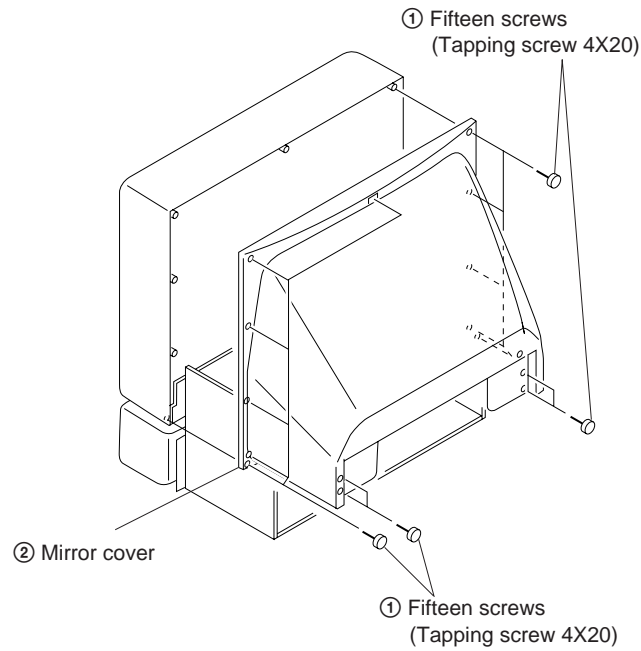
2-4-3. HA BOARD REMOVAL (KP-48V75K/53V75K)



2-5-2. BEZNET ASSY REMOVAL (KP-48V75K/53S65T/53V75K)

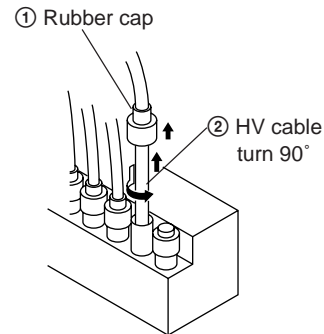


2-6-1. MIRROR COVER ASSY REMOVAL (KP-41T65K/41T65T)

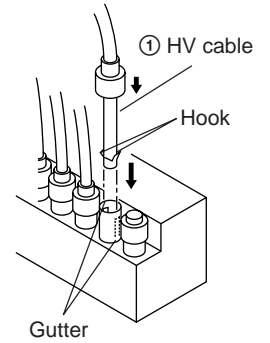


2-7. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL

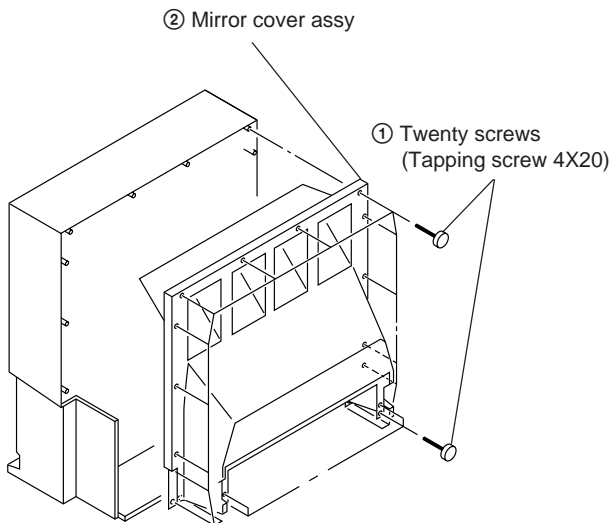
(1) Remover



(2) Installation

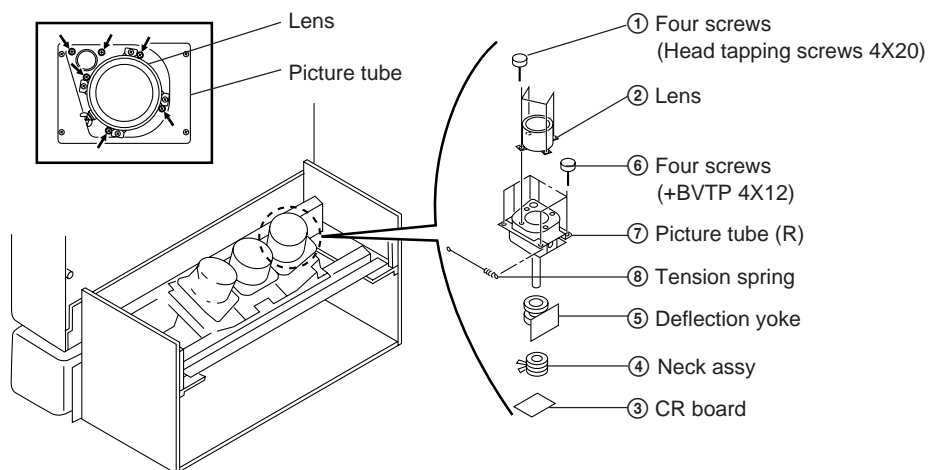


2-6-2. MIRROR COVER ASSY REMOVAL (KP-48V75K/53S65T/53V75K)



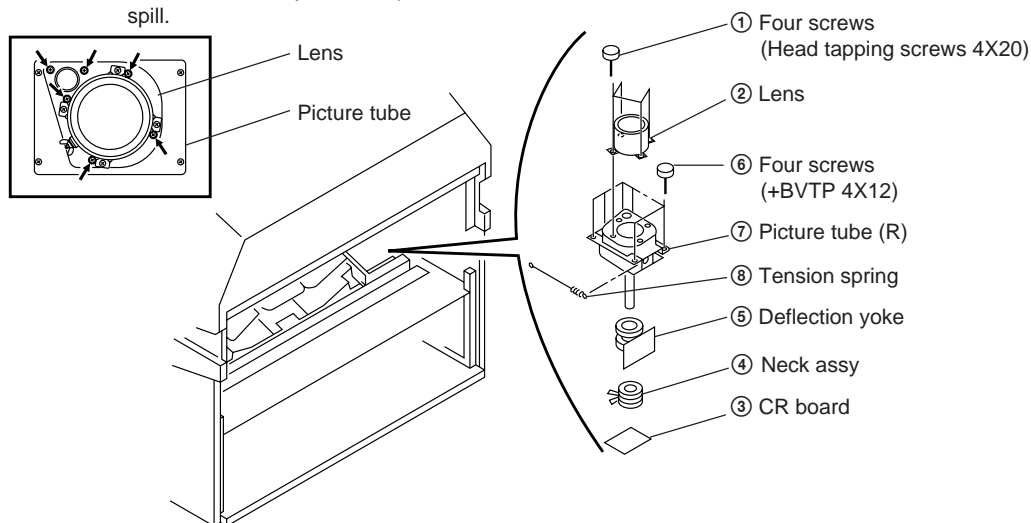
2-8-1. PICTURE TUBE REMOVAL (KP-41T65K/41T65T)

CAUTION: Removing the arrow-marked screws is strictly prohibited.
 If removed, it may cause liquid spill.

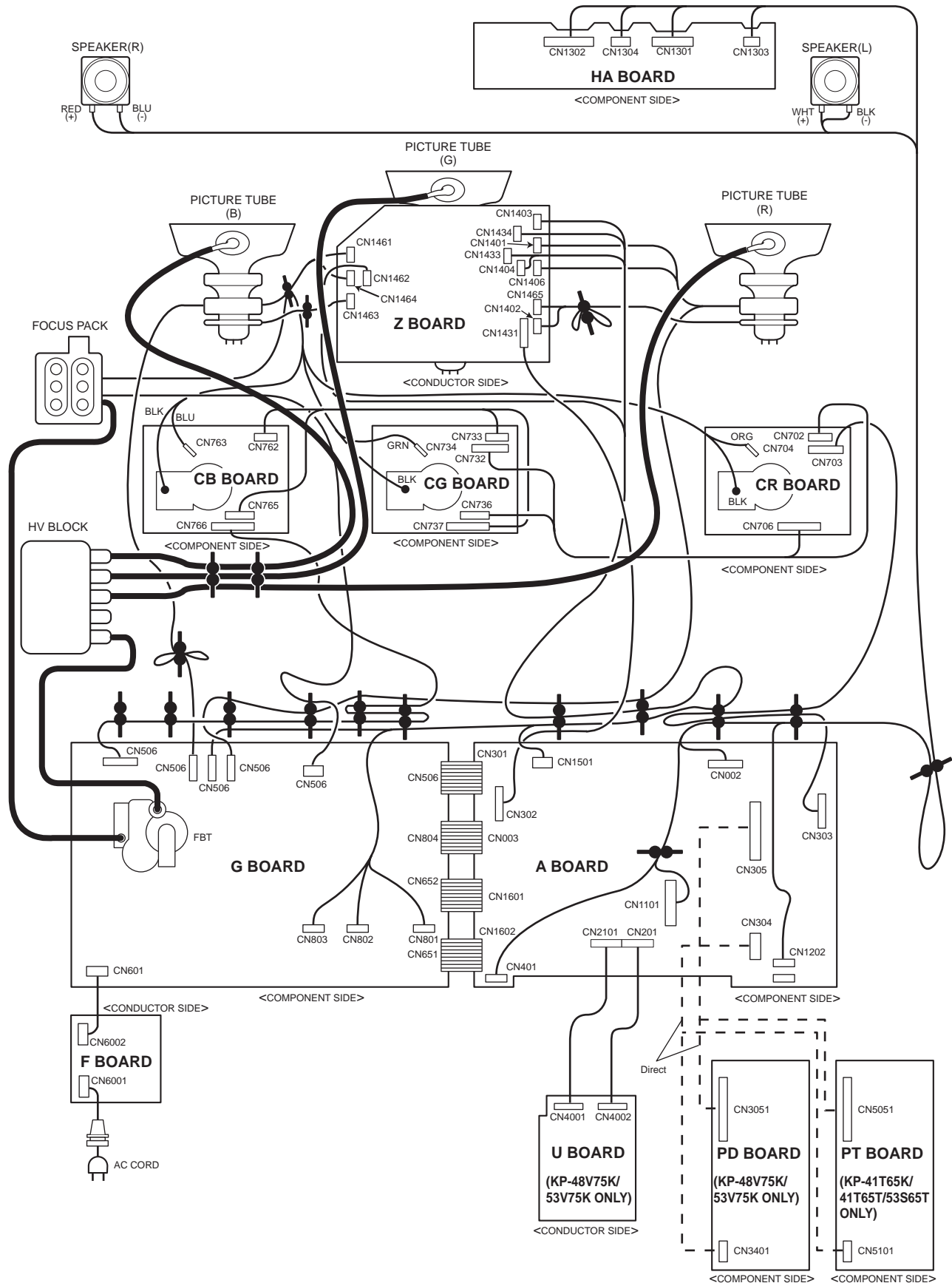


2-8-2. PICTURE TUBE REMOVAL (KP-48V75K/53S65T/53V75K)

CAUTION: Removing the arrow-marked screws is strictly inhibited.
 If removed, it may cause liquid spill.



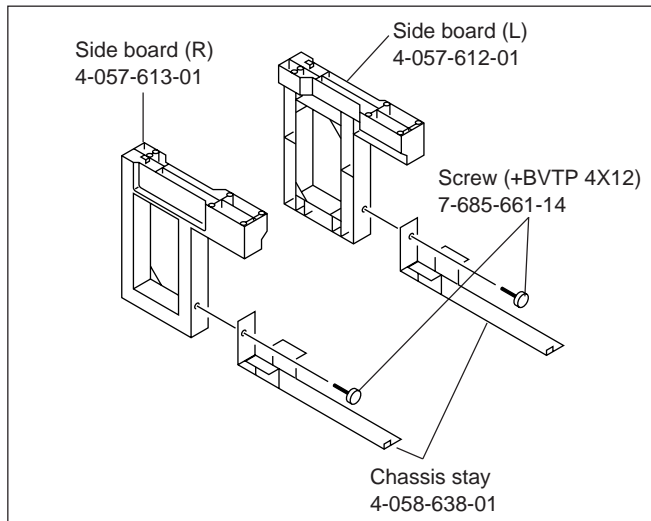
2-9. WIRING DRAWINGS AND WIRING LAYOUT



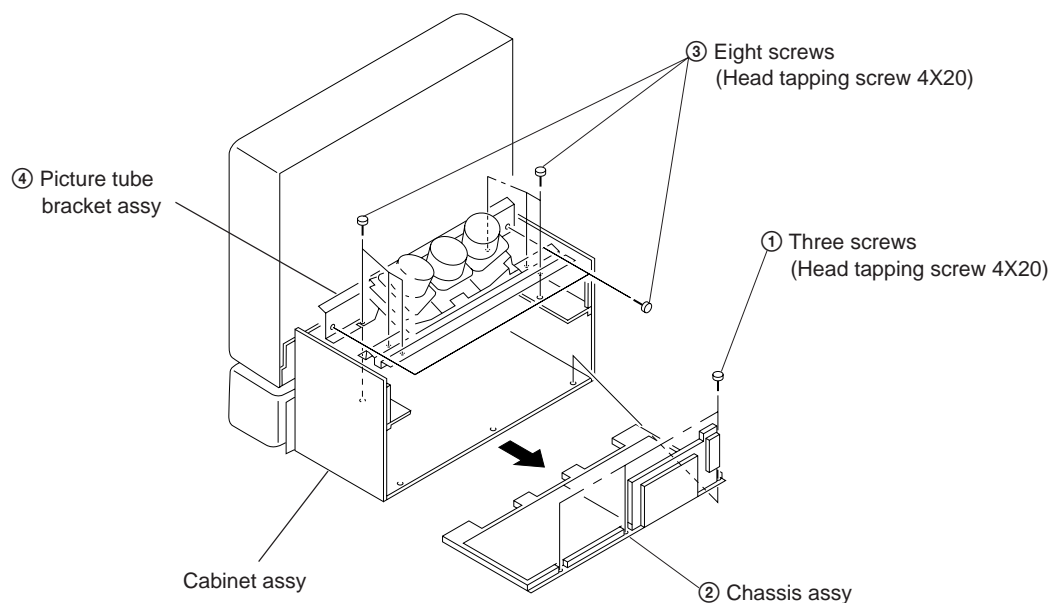
2-10. SERVICE STAY ASSY HOW TO USE AND CARRY BACK SERVICE STAY ASSY.

SERVICE STAY ASSY

X-3702-036-1



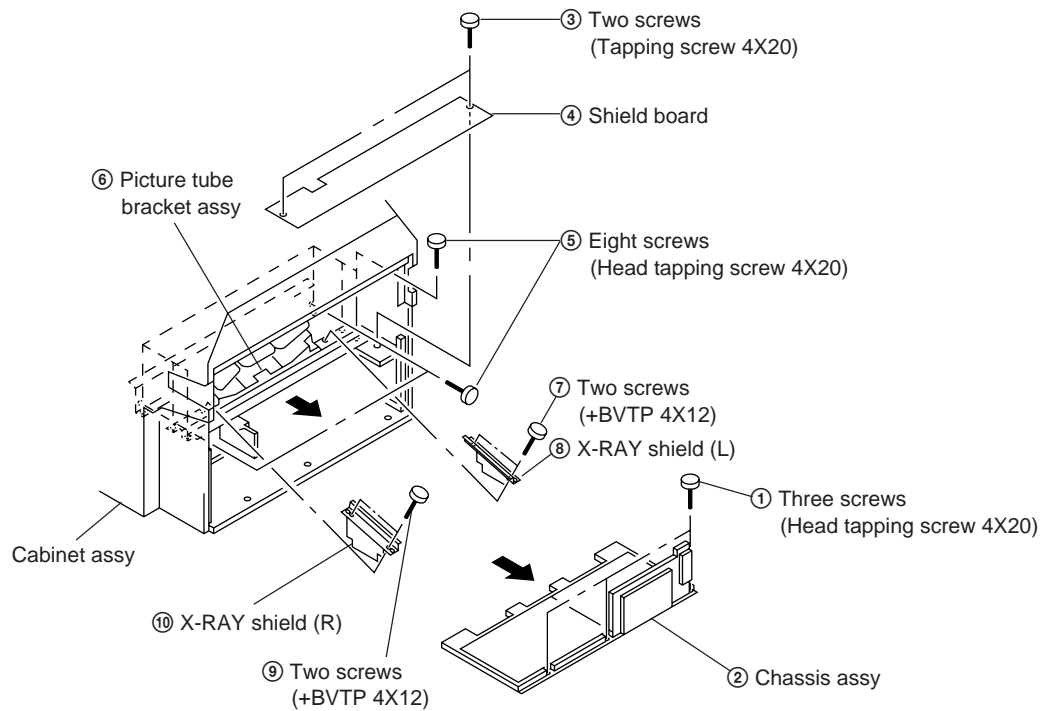
(1) PICTURE TUBE BRACKET ASSY REMOVAL (KP-41T65K/41T65T)



- 1) Remove ① three screws (head tapping screw 4X20) and pull out ② chassis Assy from cabinet Assy.
- 2) Remove ③ eight screws (head tapping screw 4X20) and release ④ picture tube bracket Assy from cabinet Assy.

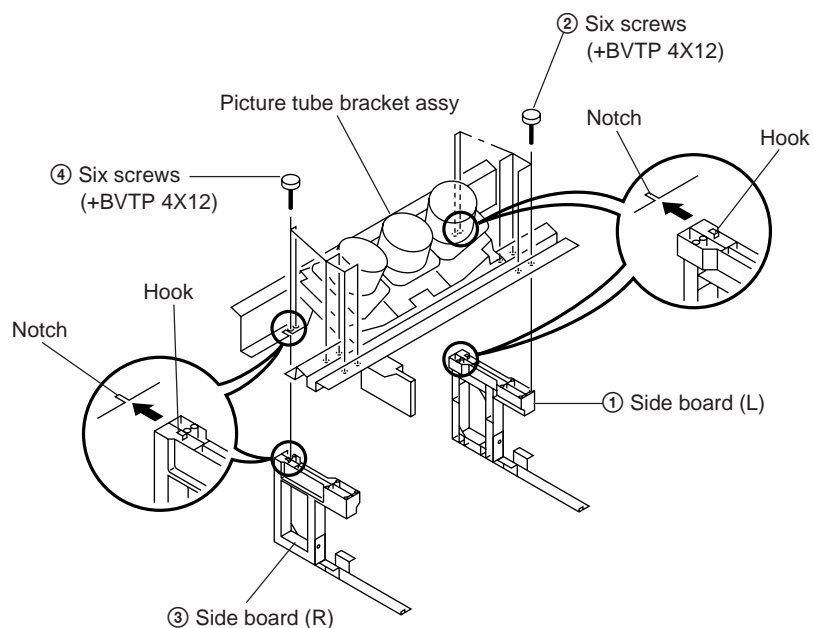
(2) PICTURE TUBE BRACKET ASSY REMOVAL (KP-48V75K/53S65T/53V75K)

- Disassemble HA board and speaker cord.
- Disassemble all the harness from purse lock.



- 1) Remove ① three screws (head tapping screw 4X20) and pull out ② chassis assy from cabinet assy.
- 2) Remove ③ two screws (tapping screw 4X20) and remove ④ shield board.
- 3) Remove ⑤ eight screws (head tapping screw 4X20) and release ⑥ picture tube bracket assy from cabinet assy.
- 4) Remove ⑦ two screws (+BVTP 4X12) and remove ⑧ X-RAY shield (L).
- 5) Remove ⑨ two screws (+BVTP 4X12) and remove ⑩ X-RAY shield (R).

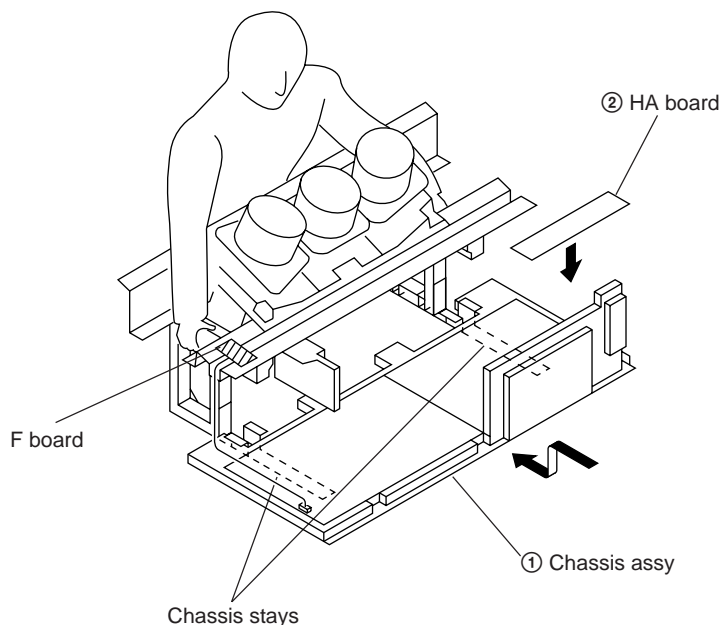
2-9-4. SETTING OF SERVICE STAY ASSY.



- 1) Remove CR board from picture tube.
- 2) Lift up picture tube bracket assy and fit the hook of ① side board (L) to the notch on the assy. Then fix then with ② six screws (+BVTP 4X12).
- 3) Lift up picture tube bracket assy and fit the hook of ③ side board (R) to the notch on the assy. Then fix then with ④ six screws (+BVTP 4X12).

Note : Always be sure to remove the picture tube before trying to set the sideboards (R L).
 The CR board may be damaged if left in position while setting the sideboards and it may be impossible to set the sideboards correctly.

(3) INSTALL A CHASSIS ASSY AND CARRY THE PICTURE TUBE BRACKET



- 1) Put ① chassis assy on chassis stays.
- 2) Put ② HA board on ① chassis assy
- 3) Put your hands to side board (L) and (R).
- 4) You can carry the chassis assy in this condition.

Note : Make sure that the CR board has been removed before installing the chassis assy.

SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

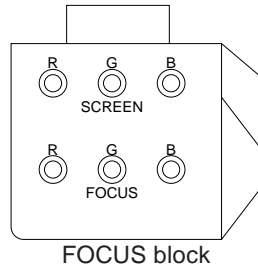


Fig. 3-1

3-2. FOCUS LENS ADJUSTMENT

1. Loose the lens screw.
2. Set in service mode.
3. Use VP on the service mode menu to shown only the green color.
4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal (crosshatch) on the screen.
5. Rotate the green lens and align with the optimal focus point from the test signal.
6. Use RG-RH from the service mode menu to set to green and red.
7. Output the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap.
8. Use RG-BH from the service mode menu to set to red and blue.
9. Output the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap.
10. Tighten the lens screw.

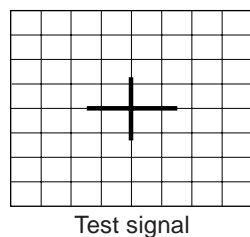


Fig. 3-2

3-3. SCREEN (G2) ADJUSTMENT

1. Select VIDEO mode without signals.
2. Connect an oscilloscope to the TP701(KR), TP731(KG) and TP761(KB) of CR board, CG board and CB board.
3. Adjust R, G and B screen voltage to 170 – 173V with screen VR on the focusblock.
4. After adjusting the screen VR on the focus block confirm that the retrace lines are not visible. If retrace lines are visible reduce the setting of the screen VR until the retrace lines are not visible.

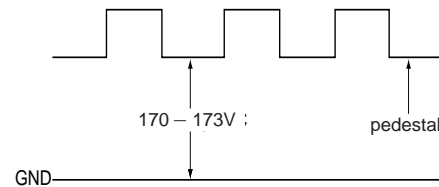


Fig. 3-3

3-4. FOCUS VR ADJUSTMENT

1. Set in service mode.
2. Use VP on the service mode menu to shown only the green color.
3. Press the Commander Menu button (convergence) and output the test signal (crosshach).
4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.
5. Use RG-RH from the service mode menu to set to green and red.
6. Output the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.
7. Use RG-BH from the service mode menu to set to red and blue.
8. Output the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap.

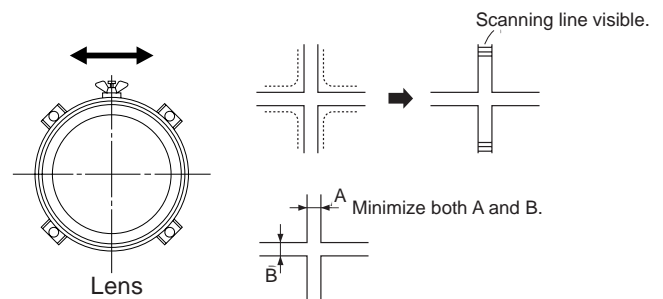


Fig. 3-4

Fig. 3-5

3-5. DEFLECTION YOKE TILT ADJUSTMENT

1. Set to receive the Monoscope signal.
2. Set in service mode.
3. Use VP on the service mode menu to show only the green color.
4. Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
6. The tilt of the deflection yoke for red is aligned with RG-RH on the service mode menu, and the tilt on the deflection yoke for blue is aligned with RG-BH on the service menu, is aligned the same as was done for green.

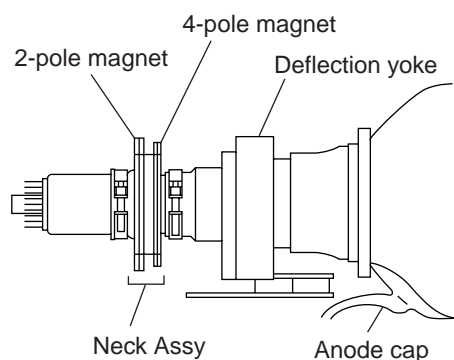


Fig. 3-6

3-6. 2-POLE MAGNET ADJUSTMENT

1. Disconnect CN1431 on Z board.
2. Power on.
3. Set to receive dot hatch signal.
4. Place caps on the red and blue lenses so that only the green color is shown.
5. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.
6. Adjust the 2-pole magnet so that the spot is centered inside of the flare portion and the width of the flare on the left side and right side is equal.
7. Turn the green VR on the focus block to the right and adjust for best focus.
8. Perform the same adjustment for red.
9. Power off
10. Connect CN1431.

Use the center dot

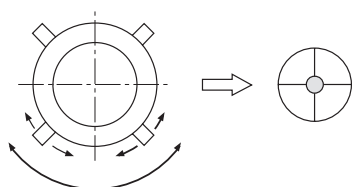


Fig. 3-7

3-7. 4-POLE MAGNET ADJUSTMENT

1. Disconnect CN1431 on Z board.
2. Power on.
3. Set to receive the dot signal.
4. Place caps on the red and blue lenses so that only the green color is shown.
5. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.
6. Adjust the 4-pole magnet so that the spot becomes a perfect circle.
7. Turn the green VR on the focus block to the left and adjust for best focus.
8. Perform the same adjustment for red and blue. For red adjust the spot to a circle. For blue adjust the spot so that the spot height is 1.5 times higher than the spot width ($x : y = 1 : 1.5$).
9. Power off
10. Connect CN1431.

Use the center dot

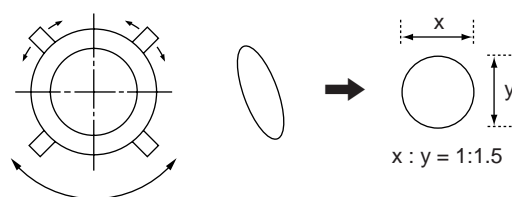


Fig. 3-8

3-8. DEFOCUS ADJUSTMENT (Blue)

1. Receive the dot hatch signal
2. Adjust the blue FOCUS knob clockwise until the right dot becomes oval.
3. Check flare with high luminance dot hatch signal to make sure that the blue flare is minimal Reduce defocus if blue flare is excessive.
4. Defocus adjustment is for blue only.

[Focus adjustment point]

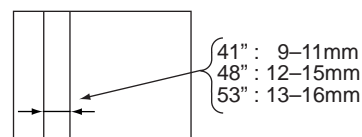


Fig. 3-9

3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER



By using Remote Commander (RM-Y903), all circuit adjustments can be made.

NOTE : Test Equipment Required.

1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

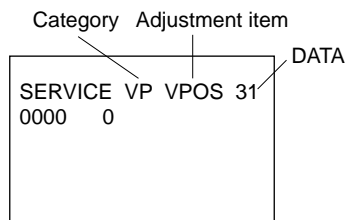
SERVICE MODE PROCEDURE

1. Standby mode. (Power off)
2. **DISPLAY** → **5** → **VOL (+)** → **TV POWER**
 (**+** → **5** →  → )

on the Remote Commander.

(Press each button within a second.)

SERVICE MODE ADJUSTMENT

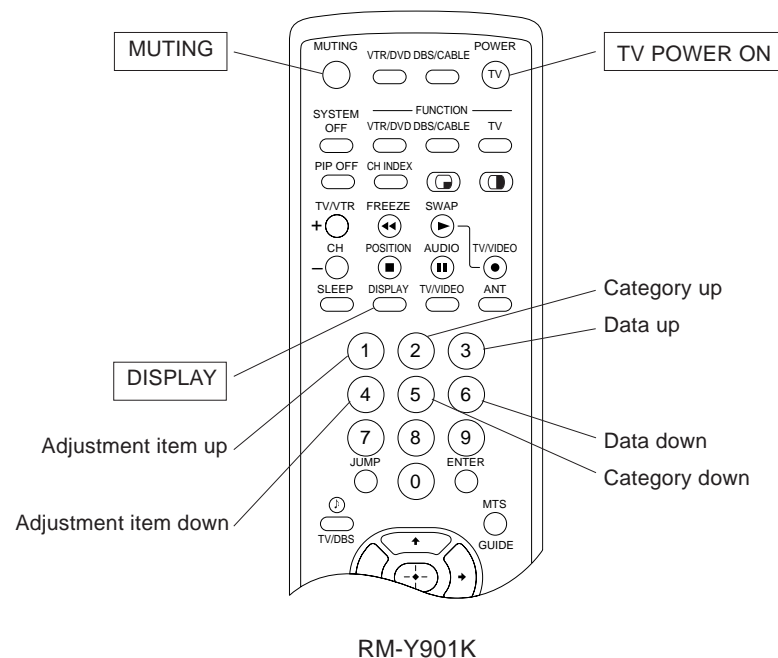
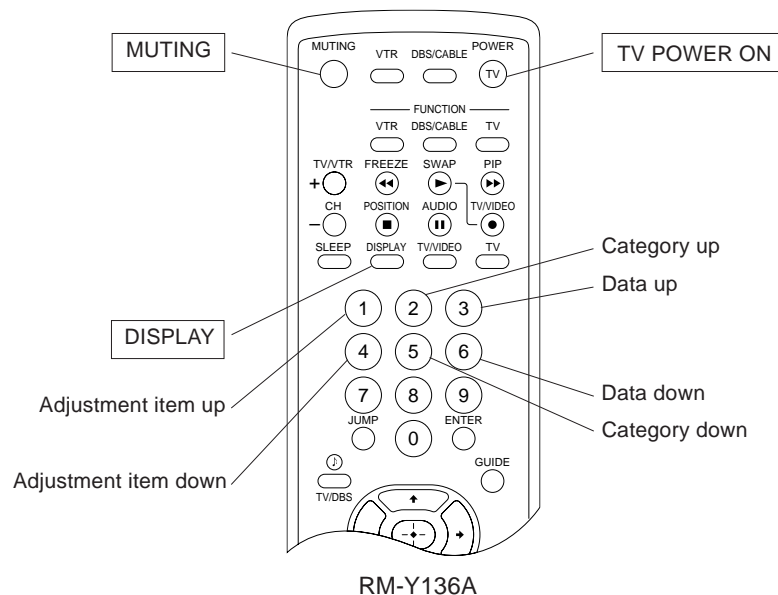


3. The CRT displays the item being adjusted.
4. Press **1** or **4** on the Remote Commander to select the item.
5. Press **3** or **6** on the Remote Commander to change the data.
6. Press **2** or **5** on the Remote Commander to select the category.
7. If you want to recover the latest values press **0** then **ENTER** to read the memory.
8. Press **MUTING** then **ENTER** to write into memory.
9. Press **8** then **ENTER** on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, remove the plug from AC outlet, and then replace the plug in AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again and confirm they were adjusted.

3. ADJUST BUTTONS AND INDICATOR



4. SERVICE MODE LIST

VP

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
VP	VPOS	-	-	0-63	V SHIFT
	VSIZ	-	-	0-63	V SIZE
	VCOM	0	0	0-3	HV-COMP-V
	VLIN	7	7	0-15	V LIN
	VSCO	7	7	0-15	S CORRECTION
	HPOS	7	7	0-15	H SHIFT
	HSIZ	-	-	0-63	H SIZE
	PAMP	-	-	0-63	PIN AMP
	UPIN	7	7	0-15	UPPER CORNER PIN
	LPIN	7	7	0-15	LOWER CORNER PIN
	PPHA	7	7	0-15	H TRAPEZOID
	AFC	2	2	0-3	AFC LOOP GAIN
	VBOW	7	7	0-15	V BOW
	VANG	7	7	0-15	V ANGLE
	REF	3	3	0-3	AKB REFERENCE
	GDRV	-	-	0-63	GREEN DRIVE
	BDRV	-	-	0-63	BLUE DRIVE
	GCUT	-	-	0-15	GREEN CUT OFF
	BCUT	-	-	0-15	BLUE CUT OFF
	SCON	-	-	0-15	SUB CONTRAST
	SHUE	-	-	0-15	SUB HUE
	SCOL	-	-	0-15	SUB COLOR
	SBRT	-	31	0-63	SUB BRIGHTNESS
	SSHP	7	7	0-15	SUB SHARPNESS
	GMMA	0	0	0-3	GAMMA LEVEL
	EYSW	-	0	0,1	EXT-Y SWITCH
	CDM2	0	0	0,1	COUNT DOWN MODE 2
	DPIX	1	1	0,1	DYNAMIC PICTURE
	Y-DC	1	1	0,1	DC TRANSMISSION RATIO
	ABLM	1	1	0,1	ABL MODE
	AXIS	0	0	0,1	R-Y, G-Y AXIS
	NOTC	0	0	0,1	C TRAP
	CROM	7	7	0-15	C TRAP F0
	TOT	0	0	0,1	C TOT FILTER
	PREL	3	3	0-3	PRE/OVER LEVEL
	SHPF	2	3	0-3	SHARPNESS F0
	RON	-	1	0,1	RED ON/OFF
	GON	-	1	0,1	GREEN ON/OFF
	BON	-	1	0,1	BLUE ON/OFF
	DCOL	-	1	0,1	DYNAMIC COLOR
	CDMD	0	0	0,1	V COUNT DOWN
	LBLK	13	13	0-15	H BLK WIDTH LEFT SIDE
	RBLK	13	13	0-15	H BLK WIDTH RIGHT SIDE

3D (KP-48V75K/53V75K)

Category	Adjustment item	Standard data	Data range	Note
3D	NRMD	0	0-13	NOISE REDUCER MODE
	DYCO	2	0-15	Δ Y CORING LEVEL SETTING
	DYGA	10	0-15	Δ Y GAIN SETTING
	DCCO	5	0-15	Δ C CORING LEVEL SETTING
	DCGA	5	0-15	Δ C GAIN SETTING
	SELD	1	0,1	SELECT Δ Y SIGNAL FILTER
	D2GA	4	0-7	Δ Y/C 2nd GAIN SETTING
	VTRH	1	0-3	VTR HSYNC HYSTERESIS SETTING
	VTRR	1	0-3	VTR HSYNC REFERENCE SETTING
	LDSR	2	0-3	LD SIGNAL REFERENCE
	VAPG	5	0-7	V APERTURE GAIN
	VAPI	11	0-31	V APERTURE INVERT POINT
	VPFT	0	0-3	Y PEAKING FILTER TAP
	VPFG	8	0-15	Y PEAKING FILTER GAIN
	VIPS	2	0-3	VERTICAL 1 LINE SELECTOR
	VEGS	1	0-3	VERTICAL EDGE SELECTOR
	CC3N	0	0,1	C SIGNAL 3-LINE COM FILTER
	HDP	4	0-7	HD HORIZONTAL PHASE
	CDL	4	0-7	C DELAY
	HSSL	12	0-15	H SYNC SLICE LEVEL
	VSSL	8	0-15	V SYNC SLICE LEVEL
	HPLF	1	0,1	H PLL FILTER
	BPLF	0	0,1	BURST PLL FILTER
	FSCF	1	0,1	FSC FILTER GAIN
	PLFG	1	0,1	PLL FILTER GAIN
	EXAD	1	0,1	EXTERNAL AD IN
	MSS	0	0-3	FORCED MOTION SIGNAL
	COUT	3	0-3	C SIGNAL OUTPUT
	YAPS	1	0-3	Y APERTURE
	NSDS	0	0-3	NON STD SIGNAL DETCT.
	EXCS	1	0-3	EXTERNAL COMP. SYNC.
	CPP	0	0-3	CLAMP PULSE & AD RANGE
	YHCO	0	0-3	Y HIGH FREQ. SIGNAL CORING
	YPCO	0	0,1	Y PEEK FILTER CORING OFF
	KILR	3	0-15	KILLER REFERENCE
	BGPS	4	0-15	BGP START POSITION
	BGPW	10	0-15	BGP WIDTH
	ADCL	2	0-3	AD CLOCK DELAY

AP

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
AP	SVOL	0	0	0-15	SUB VOLUME
	SBAL	7	7	0-15	SUB BLANCE
	SBAS	9	7	0-15	SUB BASS
	STRE	6	7	0-15	SUB TREBLE

PP

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
PP	BGHP	-	5	0-15	PIP H POSITION
	BGVP	-	9	0-15	PIP V POSITION
	MAHP	-	-	0-15	P&P MAIN H AQUISITION
	MAVP	-	27	0-255	P&P MAIN V AQUISITION
	SAHP	-	-	0-15	P&P SUB H AQUISITION
	SAVP	-	27	0-255	P&P SUB V AQUISITION
	DECM	-	18	0-31	M DECODER REGISTERS
	DECS	-	18	0-31	S DECODER REGISTERS
	DIS	-	66	0-127	DISPLAY SETTING
	BSIZ	-	2	0-15	BORDER SIZE
	6BIT	-	1	0-3	6bit (SMART6/SKIP6)
	VPED	-	13	0-15	V OFFSET
	UPED	-	13	0-15	U OFFSET

DA (KP-48V75K/53V75K)

Category	Adjustment item	Standard data	Data range	Note
DA	UVSH	-	0-63	YUV SUB HUE
	UVSC	-	0-63	YUV SUB COLOR

MC

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
MC	MSCN	-	-	0-15	P&P MAIN SUB CONTRAST
	MSHU	-	-	0-15	P&P MAIN SUB HUE
	MSCL	-	-	0-15	P&P MAIN SUB COLOR
	MUPD	-	-	0-15	P&P MAIN U OFFSET
	MVPD	-	-	0-15	P&P MAIN V OFFSET
	MDLY	-	0	0-3	P&P MAIN Y DELAY
	MBGR	-	3	0-3	P&P MAIN SCP CONTROL(1)
	MBGF	-	3	0-3	P&P MAIN SCP CONTROL(2)
	MU2P	-	7	0-7	P & P MAIN U2 PEDESTAL OFFSET
	MV2P	-	7	0-7	P & P MAIN V2 PEDESTAL OFFSET
	MY2D	-	19	0-31	P & P MAIN Y2 DRIVE
	MU2D	-	14	0-31	P & P MAIN U2 DRIVE
	MV2D	-	14	0-31	P & P MAIN V2 DRIVE

IC

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
IC	SSCN	6	-	0-15	P&P SUB SUB CONTRAST
	SSHU	-	-	0-15	P&P SUB SUB HUE
	SSCL	-	-	0-15	P&P SUB SUB COLOR
	SUPD	-	-	0-15	P&P SUB U OFFSET
	SVPD	-	-	0-15	P&P SUB V OFFSET
	SDLY	0	0	0-3	P&P SUB Y DELAY
	SBGR	3	3	0-3	P&P SUB SCP CONTROL(1)
	SBGF	3	3	0-3	P&P SUB SCP CONTROL(2)
	SU2P	-	7	0-15	P & P SUB U2 PEDESTAL OFFSET
	SV2P	-	7	0-15	P & P SUB V2 PEDESTAL OFFSET
	SY2D	-	19	0-31	P & P SUB Y2 DRIVE
	SU2D	-	14	0-31	P & P SUB U2 DRIVE
	SV2D	-	14	0-31	P & P SUB V2 DRIVE
	PCDR	-	32	0-63	PIP COLOR
	PHDR	-	31	0-63	PIP HUE
	PAFC	2	2	0-3	PIP AFC LOOP GAIN
	PTOT	0	0	0,1	PIP CHROMA TOT FILTER
	PYDR	10	23	0-31	PIP Y DRIVE
	PYDC	3	0	0-7	PIP DC TRAN
	PSHP	1	1	0,1	PIP SHARPNESS F0
	PDPI	0	0	0,1	PIP DYNAMIC PICTURE
	PSYS	0	0	0-3	PIP COLOR SYSTEM
	PXTL	0	0	0-3	PIP X' TAL
	PLOP	0	0	0-3	PIP COLOR LOOP

RG

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
RG-GH	GH CENT	-	-	-127- +127	GREEN H SENT
	GH SKEW	-	-	-127-+127	GREEN H SKEW
	GH BOW	-	-	-127-+127	GREEN H BOW
	GH 4BOW	-	-	-127-+127	GREEN H 4TH BOW
	GH SIZE	-	20	-127-+127	GREEN H SIZE
	GH LIN	-	-	-127-+127	GREEN H LINEARITY
	GH MSIZ	-	-	-127-+127	GREEN H MID SIZE
	GH MLIN	-	-	-127-+127	GREEN H MID LINEARITY
	GH KEY	-	-	-127-+127	GREEN H KEY
	GH SSKW	-	-	-127-+127	GREEN H SUB SKEW
	GH MPIN	-	-	-127-+127	GREEN H MID PIN
	GH PIN	-	-	-127-+127	GREEN H PIN
	GH SBOW	-	-	-127-+127	GREEN H SUB BOW
	GH MBOW	-	-	-127-+127	GREEN H MID BOW
	GH 4PIN	-	-	-127-+127	GREEN H 4TH PIN
	GH 4SBO	-	-	-127-+127	GREEN H 4TH SUB BOW

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
RG-GV	GV CENT	-	-	-127-+127	GREEN V CENT
	GV SKEW	-	-	-127-+127	GREEN V SKEW
	GV BOW	-	-	-127-+127	GREEN V BOW
	GV SIZE	-	-20	-127-+127	GREEN V SIZE
	GV LIN	-	-	-127-+127	GREEN V LINEARITY
	GV MSIZ	-	-	-127-+127	GREEN V MID SIZE
	GV MKEY	-	-	-127-+127	GREEN V MID KEY
	GV KEY	-	-	-127-+127	GREEN V KEY
	GV SSKW	-	-	-127-+127	GREEN V SUB SKEW
	GV MPIN	-	-	-127-+127	GREEN V MID PIN
	GV PIN	-	-	-127-+127	GREEN V PIN
	GV SBOW	-	-	-127-+127	GREEN V SUB BOW
	GV WAVE	-	-	-127-+127	GREEN V WAVE
	GV 4PIN	-	-	-127-+127	GREEN V 4TH PIN
RG-RH	RH CENT	-	-	-95-+96	RED H CENT
	RH SKEW	-	-	-127-+127	RED H SKEW
	RH BOW	-	-	-127-+127	RED H BOW
	RH 4BOW	-	-	-127-+127	RED H 4TH BOW
	RH SIZE	-	-	-127-+127	RED H SIZE
	RH LIN	-	-	-127-+127	RED H LINEARITY
	RH MSIZ	-	-	-127-+127	RED H MID SIZE
	RH MLIN	-	-	-127-+127	RED H MID LINEARITY
	RH KEY	-	-	-127-+127	RED H KEY
	RH SSKW	-	-	-127-+127	RED H SUB SKEW
	RH MPIN	-	-	-127-+127	RED H MID PIN
	RH PIN	-	-	-127-+127	RED H PIN
	RH SBOW	-	-	-127-+127	RED H SUB BOW
	RH MBOW	-	-	-127-+127	RED H MID BOW
	RH 4PIN	-	-	-127-+127	RED H 4TH PIN
	RH 4SBO	-	-	-127-+127	RED H 4TH SUB BOW
RG-RV	RV CENT	-	-	-95-+96	RED V CEVT
	RV SKEW	-	-	-127-+127	RED V SKEW
	RV BOW	-	-	-127-+127	RED V BOW
	RV SIZE	-	-	-127-+127	RED V SIZE
	RV LIN	-	-	-127-+127	RED V LINEARITY
	RV MSIZ	-	-	-127-+127	RED V MID SIZE
	RV MKEY	-	-	-127-+127	RED V MID KEY
	RV KEY	-	-	-127-+127	RED V KEY
	RV SSKW	-	-	-127-+127	RED V SUB SKEW
	RV MPIN	-	-	-127-+127	RED V MID PIN
	RV PIN	-	-	-127-+127	RED V PIN
	RV SBOW	-	-	-127-+127	RED V SUB BOW
	RV WAVE	-	-	-127-+127	RED V WAVE
	RV 4PIN	-	-	-127-+127	RED V 4TH PIN
	RV WING	-	-	-31-+32	RED V WING

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
RG-BH	BH CENT	-	-	-95~+96	BLUE H CENT
	BH SKEW	-	-	-127~+127	BLUE H SKEW
	BH BOW	-	-	-127~+127	BLUE H BOW
	BH 4BOW	-	-	-127~+127	BLUE H 4TH BOW
	BH SIZE	-	-	-127~+127	BLUE H SIZE
	BH LIN	-	-	-127~+127	BLUE H LINEARITY
	BH MSIZ	-	-	-127~+127	BLUE H MID SIZE
	BH MLIN	-	-	-127~+127	BLUE H MID LINEARITY
	BH KEY	-	-	-127~+127	BLUE H KEY
	BH SSKW	-	-	-127~+127	BLUE H SUB SKEW
	BH MPIN	-	-	-127~+127	BLUE H MID PIN
	BH PIN	-	-	-127~+127	BLUE H PIN
	BH SBOW	-	-	-127~+127	BLUE H SUB BOW
	BH MBOW	-	-	-127~+127	BLUE H MID BOW
	BH 4PIN	-	-	-127~+127	BLUE H 4TH PIN
	BH 4SBO	-	-	-127~+127	BLUE H 4TH SUB BOW
	BV CENT	-	-	-95~+96	BLUE V CENT
RG-BV	BV SKEW	-	-	-127~+127	BLUE V SKEW
	BV BOW	-	-	-127~+127	BLUE V BOW
	BV SIZE	-	-	-127~+127	BLUE V SIZE
	BV LIN	-	-	-127~+127	BLUE V LINEARITY
	BV MSIZ	-	-	-127~+127	BLUE V MID SIZE
	BV MKEY	-	-	-127~+127	BLUE V MID KEY
	BV KEY	-	-	-127~+127	BLUE V KEY
	BV SSKW	-	-	-127~+127	BLUE V SUB SKEW
	BV MPIN	-	-	-127~+127	BLUE V MID PIN
	BV PIN	-	-	-127~+127	BLUE V PIN
	BV SBOW	-	-	-127~+127	BLUE V SUB BOW
	BV WAVE	-	-	-127~+127	BLUE V WAVE
	BV 4PIN	-	-	-127~+127	BLUE V 4TH PIN
	BV WING	-	-	-31~+32	BLUE V WING

PS (KP-41T65K/41T65T/53S65T)

Category	Adjustment item	Standard data	Data range	Note
PS	PIPH	-	0-127	PIP H POSITION
	PIPV	-	0-63	PIP V POSITION
	PMVD	26	0-31	PIP V PULSE DELAY(M)
	PIVD	22	0-31	PIP V PULSE DELAY(I)
	PCON	-	0-15	PIP CONTRAST(I)
	FRMY	7	0-15	PIP FRAME Y LEVEL
	IPER	0	0-15	PIP PEDESTAL R-Y(I)
	IPEB	0	0-15	PIP PEDESTAL B-Y(I)
	IHUE	-	0-15	PIP SUB HUE
	ICOL	-	0-15	PIP SUB COLOR
	PHDL	1	0-15	PIP H PULSE DELAY
	PYSD	1	0-15	PIP SELECT DELAY
	PYDL	0	0-7	PIP Y DELAY
	PCPS	0	0,1	PIP CLP
	PCPF	0	0,1	PIP CLP CYCLES
	PSEL	0	0,1	PIP SELDOWN
	PPLL	0	0-3	PIP PLL
	CHRI	0	0,1	PIP INPUT POLARITY
	CHRO	0	0,1	PIP OUTPUT POLARITY

CC

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
CC	CRIH	9	-	0-15	CRI COUNT HIGH
	CRIL	2	2	0-15	CRI COUNT LOW
	CFLD	5	5	0-15	FIXED FIELD COUNT
	CCDI	3	3	0-7	NO CCD INT COMPARE
	CRIP	4	4	0-7	CRI & PARITY ERROR
	CRIT	2	1	0-3	CRI TIME CONSTANT
	CSB1	3	3	0-3	SYNC SLICE BIAS 1
	CSB2	4	4	0-7	SYNC SLICE BIAS 2
	CCBD	4	-	0-15	C SYNC BACKPORCH DET
	CCFD	7	-	0-15	C SYNC FRONTPORCH DET
	CREP	142	-	0-255	CRI SIGNAL END POSITION
	CSEP	186	-	0-255	START BIT END POSITION
	CRBD	8	-	0-15	CRI BACKPORCH DET
	CRFD	9	-	0-15	CRI FRONTPORCH DET
	CSSD	3	-	0-15	STROBE WINDOW ST DLY
	CSED	9	-	0-15	STROBE WINDOW ED DLY
	CSBS	12	-	0-31	START BIT THRESHOLD
	CREP	142	142	0-255	CRI SIGNAL END POSITION
	CDSO	8	8	0-31	DATA START DELAY
	CCDS	9	9	0-31	CAPTION DT THRESHOLD
	CHMK	42	42	0-63	H SYNC MASK WIDTH
	CHSY	136	136	0-255	H SYNC VCO COUNT

OP

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
OP	DISP	-	-	0-63	OSD POSITION
	POPS	-	-	0-255	FAV/IDX CH POSITION
	POPO	-	-	0-7	CH POSITION (OFF SET)

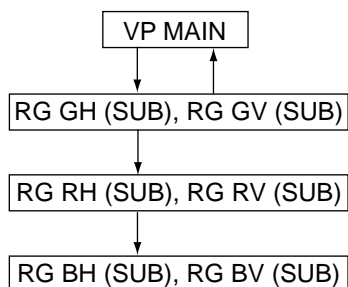
ID

Category	Adjustment item	Standard data		Data range	Note
		41T/53S	V		
ID	ID0	25	25	0-255	MODEL ID#0
	ID1	55	55	0-255	MODEL ID#1
	ID2	31	47	0-255	MODEL ID#2
	ID3	1	0	0-255	MODEL ID#3
	ID4	155	155	0-255	MODEL ID#4
	ID5	157	181	0-255	MODEL ID#5
	ID6	198	214	0-255	MODEL ID#6
	ID7	66	71	0-255	MODEL ID#7

3-10. CONVERGENCE ADJUSTMENT

- When replacing the deflection yoke, always perform “DEFLECTION YOKE TILT ADJUSTMENT” before adjusting the convergence.

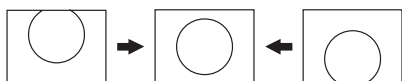
Adjustment procedure



[GREEN REGISTRATION ADJUSTMENT]

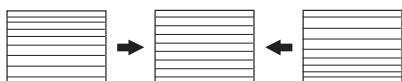
• V-SHIFT adjustment

VP VPOS



• V-LINEARITY adjustment

VP VLIN



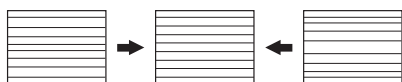
• V-SIZE, V-CORRECTION adjustment

While tracking, adjust so that the lattice intervals for VSIZ and VSCO are equal.

VP VSIZ

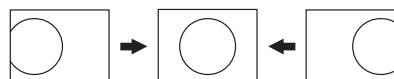


VP VSCO



• H-SHIFT adjustment

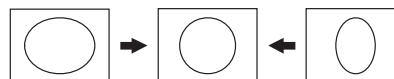
VP HPOS



• H-SIZE adjustment

Finely adjust with SUB MSIZ.

VP HSIZ



• PIN-AMP adjustment

Finely adjust with SUB MPIN.

VP PAMP



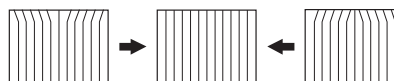
• UPPER/LOWER-CORNER PIN adjustment

Correct the screens top and bottom bow line.

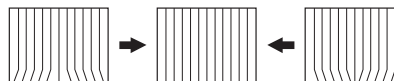
However, if this adjustment is overdone, distortion may occur with the PIN-AMP adjustment that can not be re-adjusted.

Note : The PIN-AMP adjusts the overall screen from top to bottom, but the UPPER/LOWER-CORNER PIN adjustments have large movement in the top and bottom sections, so be careful.

VP UPIN



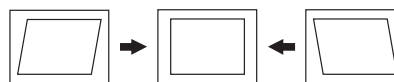
VP LPIN



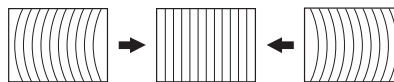
• V-ANGLE, V-BOW adjustment

Correct the tilt and bow of the vertical line at the center of the screen.

VP VANG

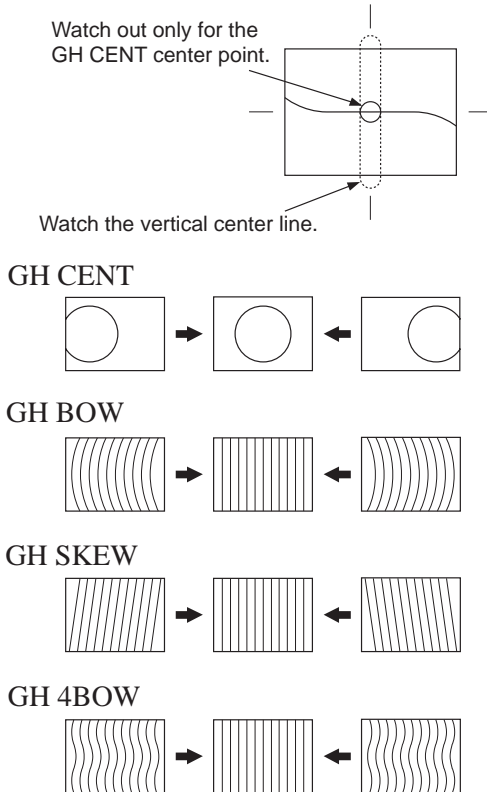


VP VBOW



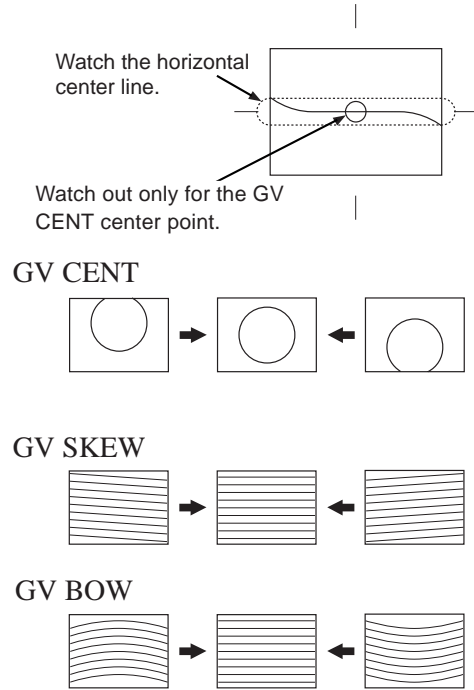
[GREEN SUB ADJUSTMENT]
SCREEN CENTER SECTION GREEN VERTICAL LINE
ADJUSTMENT

1. Finely adjust with GH CENT, GH BOW, GH SKEW.
 Adjust by watching out for the GH CENT screen center section.
2. GH 4TH BOW adjustment
 Correct the corner distortion that could not be adjusted away with the GH 4BOW adjustment.



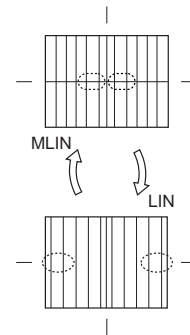
SCREEN CENTER SECTION GREEN HORIZONTAL LINE
ADJUSTMENT

1. Finely adjust the center position of the vertical line at the center of the screen with GV CENT.
2. Correct the tilt and bow of the horizontal line at the center of the screen with GV SKEW and GV BOW.



GREEN SIZE AND LINEARITY ADJUSTMENT

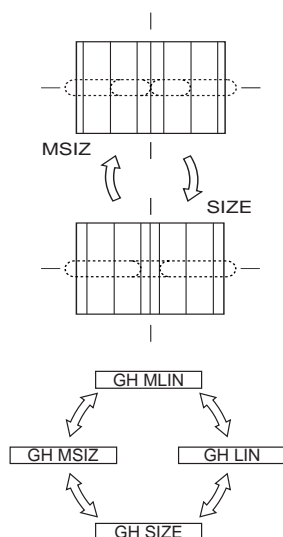
1. Balance the sizes at both sides of the center section of the screen with GH MLIN.
2. Balance the sizes on both end sections of the screen with GH LIN.
3. While tracking, adjust with GH MLIN and GH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right.



GREEN HORIZONTAL SIZE ADJUSTMENT

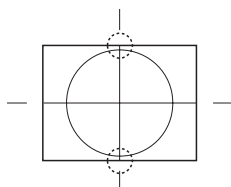
1. Adjust with GH MSIZE so that the sizes of both ends and of both sides of the center section of the screen are equal.
2. Adjust with GH SIZE so that the horizontal sizes of both ends and of both sides of the center section of the screen are equal.
3. While tracking, adjust with GH MSIZ and GH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value.
4. If M LIN is changed when the GH MSIZ and GH SIZE adjustment is complete, adjust again while tracking.

- With just the H SIZE adjustment in MAIN, if there is no need to adjust GH SIZE in SUB this can save power.



GREEN VERTICAL LINEARITY ADJUSTMENT

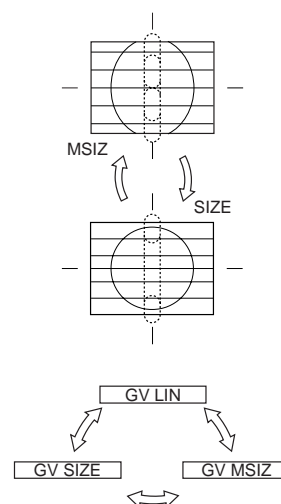
1. Adjust GV LIN so that the vertical lines at the top and bottom of the screen are symmetrical.



GREEN VERTICAL SIZE ADJUSTMENT

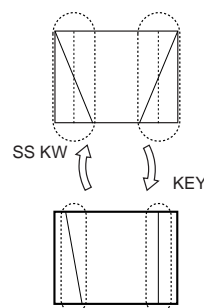
1. Adjust with GV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal.
2. Set the vertical size to the prescribed value with GV SIZE.
3. Adjust GV MSIZ and GV SIZE watching the vertical line at the center section of the screen.
4. While tracking, adjust with GV MSIZ and GV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value.
5. If GV LIN is out of place when the GV MSIZ and GV SIZE adjustment is complete, adjust again while tracking.

- If there is no need to adjust GV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power.



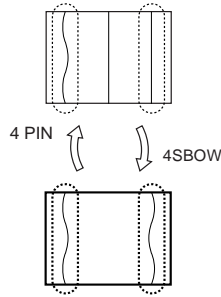
GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Adjust with GH SSKW so that the tilt of the vertical lines at both ends of the screen is symmetrical left and right.
2. Adjust with GH KEY so that there is no tilt in the vertical lines at both ends of the screen.
3. If there is a tilt on either the left or right after the GH KEY adjustment, adjust while tracking.



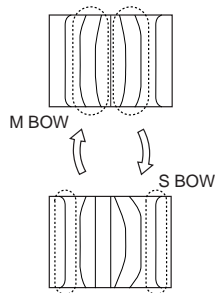
GREEN HORIZONTAL QUATERNARY ADJUSTMENT

1. Correct the quaternary distortion with GH 4PIN.
2. While balancing, correct the quaternary distortion of both end sections of the screen with GH 4SBOW.
3. While tracking, adjust with GH 4PIN and GH 4SBOW.



GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

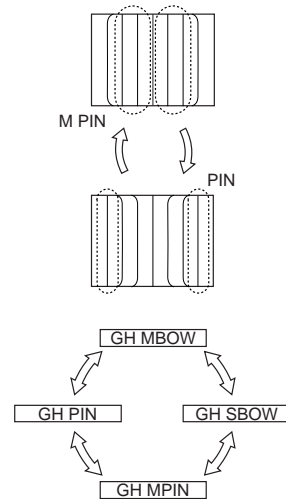
1. Adjust with GH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical.
2. Adjust with GH SBOW so that the bow at both end sections of the screen is symmetrical left and right.
3. While tracking, adjust with GH MBOW and GH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right.



GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Adjust the pin distortion at both sides of the center section of the screen with GH MPIN.
2. Adjust the pin distortion at both end sections of the screen with GH PIN.
3. While tracking, adjust with GH MPIN and GH PIN so that the PIN of vertical lines on the entire screen have no bowing.
4. If there is asymmetrical pin distortion after the GH MPIN and GH PIN adjustments, adjust with GH MBOW and GH SBOW while tracking.

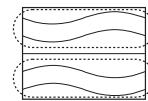
- With just the PIN AMP adjustment in MAIN, if there is no need to adjust GV PIN in SUB, this can save power.



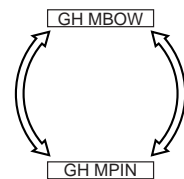
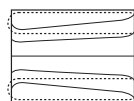
GREEN VERTICAL WAVE (TERTIARY DISTORTION) ADJUSTMENT

1. Take the screen top and bottom horizontal lines with GV WAVE and find the secondary and quaternary waveform.
2. There is KEY distortion after the GV WAVE adjustment, so adjust with GV WAVE and GV KEY while tracking.

GV WAVE



GV KEY



GREEN VERTICAL QUATERNARY DISTORTION ADJUSTMENT

1. Correct the quaternary distortion of the horizontal lines at the top and bottom sections of the screen with GV 4PIN.
- 1) Since there is no 4SBOW for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen.
- 2) In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK.

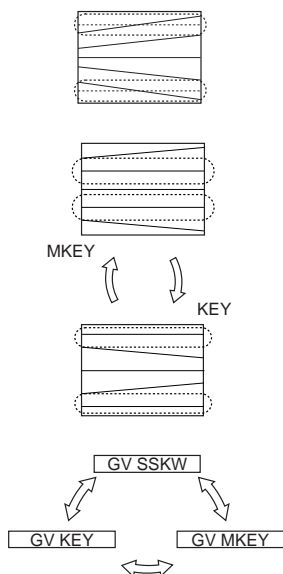
GV 4PIN



GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT

1. Adjust with GV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about the center position horizontal line.
2. Adjust with GV MKEY so that there is no tilt for the line sections at both sides of the horizontal lines at the center section of the stream.
3. Adjust with GV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen.
4. While tracking, adjust with GV MKEY and GV KEY so that there is no tilt for the horizontal lines on the entire screen.
5. If the tilt is unbalanced after the GV MKEY and GV KEY adjustment, adjust again with GV SSKW.

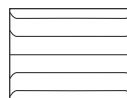
GV SSKW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (SECONDARY DISTORTION) ADJUSTMENT

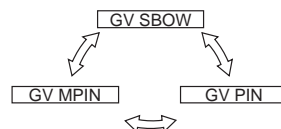
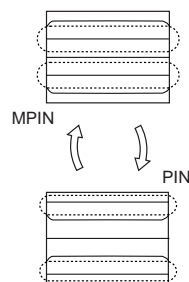
1. Correct the asymmetrical pin distortion at the top and bottom sections of the screen with GV SBOW.

GV SBOW



GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT

1. Adjust the pin distortion for both side sections and the center of the screen with GV MPIN.
2. Adjust with GV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines.
3. Adjust with GV MPIN and GV PIN so that there is no curve in the horizontal lines on the entire screen.
4. After the adjustments in Items 1-3, adjust the tracking with GV SBOW, GV MPIN, and GV PIN.



GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV)

1. Receive a cross-hatch signal.
2. Adjust so that the red lines lay on the green lines.
Adjust with the same procedure as the GREEN SUB adjustment.

Notes: 1. The main correction is not carried out during red registration adjustment.
 2. Beware. The green adjustment items can be changed by mistake.
 3. Unlike for green, adjust within the range -127 ~ +128.

GREEN AND BLUE REGISTRATION ADJUSTMENT (RBH, RBV)

1. Receive a cross-hatch signal.
2. Adjust so that the blue and green lines are on top of each other.

Notes : 1. The main correction is not carried out during RED registration adjustment.
 2. Beware. The GREEN and RED adjustment items can be changed by mistake.


3-11. AGC ADJUSTMENT

1. Receive an off-air signal.
2. Adjust the AGC VR (TU 1001) so that there is no snow noise and cross-modulation.

3-12. WHITE BALANCE ADJUSTMENT

1. Receive the monoscope pattern signal and adjust the picture quality with the menu.
2. Adjust service mode SBRT so that the signal 30 IRE section barely glows.
3. Receive the all-white pattern signal.
4. Adjust the white balance with service mode GCUT and BCUT.
5. Adjust service mode SBRT so that the signal 100 IRE section barely glows.
6. Adjust the white balance with service mode GAMP and BAMP.
7. Repeatedly adjust the white balance for the minimum and maximum picture settings.

3-13. P IN P WHITE BALANCE ADJUSTMENT (MU2D, MV2D, SU2D, SV2D)


1. Receive the white pattern signal on both picture.
2. PICTURE : minimum
 COLOR : center
 BRIGHTNESS : center
 TRINTONE : medium
3. Set to P & P () mode, and to service mode.
4. Adjust white balance level of right picture with “ MU2D ” and “ MV2D ”.
5. Adjust white balance level of left picture with “ SU2D ” and “ SV2D ”.
 • Make this adjustment after adjusting the MAIN PICTURE white balance level.



SECTION 4

SAFETY RELATED ADJUSTMENTS

[G BOARD]

4-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with  on the schematic diagram always check HV regulation, and if necessary re-adjust.

- : C514
- : C514, C515, C516
IC651
T502, T503, T504 (FBT)
D.Y

OPERATION CHECK

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block. (Fig.4-1)
2. Power on the set.
3. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
4. Check that the HV static voltmeter is reading $31.00 \pm 1.0\text{kVdc}$.

HV Regulation adjustment

1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
2. Power on the set.
3. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
4. If anode voltage is 32kV or higher, replace C514 of 390PF/2kV with that of 680PF/2kV, and check if the voltage is within the standard range.
5. If anode voltage is 30kV or lower, replace C514 of 390PF/2kV with that of 100PF/2kV, and check if the voltage is within the standard range. (Fig.4-2)

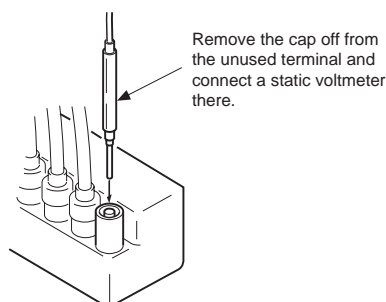


Fig. 4-1

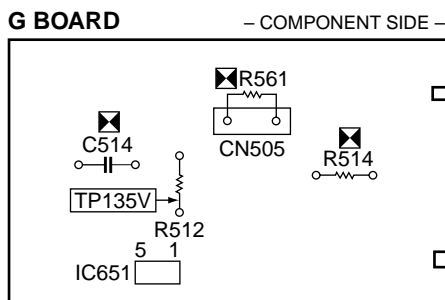





Fig. 4-2

4-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with  on the schematic diagram always check hold-down voltage and if necessary re-adjust.

- : R514, R561
- : C507, C513
D501, D504, D507
IC301, IC501, IC651
R502, R514, R516, R517, R539, R560, R561
T502, T503, T504 (FBT)
D.Y

OPERATION CHECK

1. Remove CN651 connector.
2. Short-circuit across TP-PROT (R692) and ground.
3. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
4. Connect a 220k variable resistor, across pin ③ and pin ⑤ of IC651 set to maximum value.
5. Power on the set.
6. Receive the dot signal. (PICTURE and BRIGHTNESS to minimum)
7. Gradually lower the value of the variable resistor and check that the hold-down circuit operates at a static voltmeter reading of $33.5 \pm 1.0\text{kVdc}$ when the raster disappears.

HV HOLD-DOWN ADJUSTMENT

1. Repeat steps ① ~ ⑦ as above.
2. If hold down voltage is 34.5kV or higher, remove R514, mount a resistor (390kΩ, 1/4W : RN) onto R561 instead, and check again if the hold-down voltage is within the standard range.
3. If hold down voltage is 32.5kV or lower, mount a resistor (220kΩ, 1/4W : RN) onto R561 and check again if the hold-down voltage is within the standard range. (Fig.4-2)

NOTE : Please finish the adjustment as soon as possible

4-3. +B MAX VOLTAGE CONFIRMATION

The following adjustments should always be performed when replacing IC651.

1. Supply 230VAC to with variable autotransformer.
2. Input a dot signal.
3. Set the PICTURE control and the BRIGHTNESS controls to minimum.
4. Confirm the voltage of G BOARD TP135V is less than 137.0Vdc.
5. If step 4 is not satisfied, replace IC651 and repeat above steps. (Fig.4-2)

4-4. +B OVP CONFIRMATION

1. Remove CN651 connector.
2. Connect a voltmeter to TP135V, and TP (PROT) and ground.
3. Connect a 220k Ω variable resistor, across pin ③ and pin ⑤ of IC651 set to maximum value.
4. Supply 220VAC to variable autotransformer.
5. Set PICTURE and the BRIGHTNESS controls to minimum.
6. Gradually turn the 220k Ω variable resistor, and check if OVP works properly when the voltage of TP135V is between 139.0 ~ 151.5V. **(Fig.4-2)**

SECTION 5

CIRCUIT ADJUSTMENTS

5-1. RF AGC

1. Input the 75% white color bars pattern signal.
2. Adjust AGC VR of TU1101 so that snow noise, and crossmodulation disappear from the picture.
3. Verify picture quality on each channel.

5-2. BAR DISPLAY ADJUSTMENT (DISP)

1. Receive the cross-hatch signal.
2. Set to Service mode.
3. Select "DISP", and adjust so that the blank spaces on the both sides of picture bar become equal.
4. Write the data into memory.

MUTING → ENTER

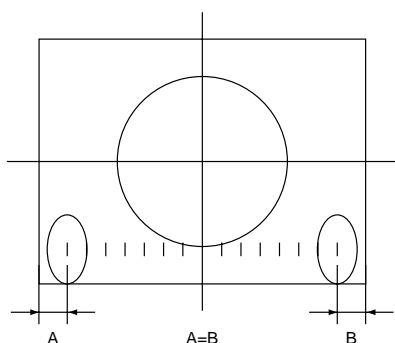


Fig. 5-1

5-3. SUB CONTRAST ADJUSTMENT (SCON)

1. Receive the 75% white color bars pattern signal.
2. PICTURE : maximum
 COLOR : minimum
 BRIGHTNESS : center
 TRINITONE : medium
 RON---1 GON---0 BON---0
3. Set to service mode.
4. Connect an oscilloscope between pin ⑥ of CN004 (A Board) and ground.
5. Select "SCON", and adjust so that the wave form level is $1.75 \pm 0.05V_{p-p}$.
6. Write the data into memory.

MUTING → ENTER

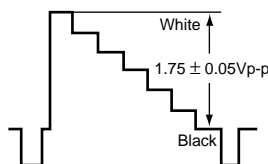


Fig. 5-2

5-4. SUB-HUE AND SUB-COLOR ADJUSTMENT (SHUE, SCOL)

1. Receive the 75% white color bars pattern signal.
2. PICTURE : maximum
 COLOR : center
 BRIGHTNESS : center
 TRINITONE : medium
3. Set to service mode.
4. Connect an oscilloscope between pin ⑦ of CN004 (A Board) and ground.
5. Select "SHUE" and "SCOL", and adjust them to have $VB1 = VB4$ and $VB2 = VB3$ in the wave form levels.
6. Raise "SCOL" data 0 steps higher.
7. Write the data into memory.

MUTING → ENTER

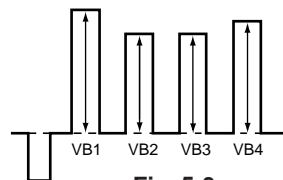
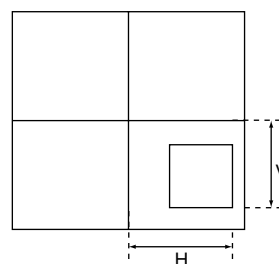


Fig. 5-3

5-5. P IN P POSITION ADJUSTMENT (PIPH, PIPV)

1. Receive the monoscope signal.
2. Set to P & P (■) mode, and to Service mode.
3. Check the SUB PICTURE position.
4. Select "PIPH" and "PIPV" and adjust H/V position to the center level.
5. Write the data into memory.

MUTING → ENTER



H : $7.00 \pm 0.25sq$

V : $5.25 \pm 0.25sq$

Fig. 5-4

5-6. P IN P SUB CONTRAST ADJUSTMENT (PCON)

1. Receive the color-bar signal.
2. PICTURE : maximum
 COLOR : minimum
 BRIGHTNESS : minimum
 TRINITONE : medium
3. Set to service mode.
4. Connect an oscilloscope between ⑨ pin of CN303 (A Board) and ground.
5. Select "PCON" and adjust so that waveform level is $1.55 \pm 0.1V_{p-p}$.

- Write the data into memory.

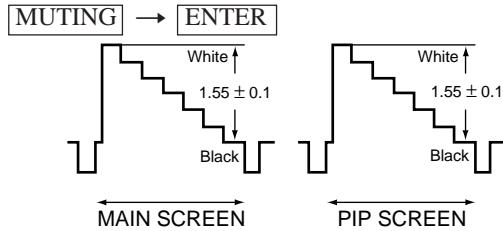


Fig. 5-5

5-7. P IN P SUB HUE, SUB COLOR ADJUSTMENT (IHUE, ICOL)

- Receive the color-bar signal.
- PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
- Set to service mode.
- Connect an oscilloscope between ⑤ pin of CN303 (A Board) and ground.
- Select "IHUE" and "ICOL", adjust them to have VB1 = VB4 and VB2 = VB3 in the waveform levels.
- Raise "ICOL" data 1 steps higher.
- Write the data into memory.

MUTING → ENTER

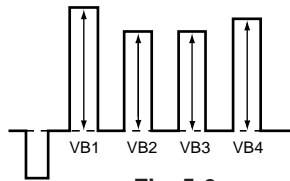


Fig. 5-6

[KP-48V75K/53V75K]

5-8. DVD INPUT SUB HUE, SUB COLOR ADJUSTMENT (UVSH, UVSC)

- Select video 4 input.
- PICTURE : maximum
COLOR : center
BRIGHTNESS : center
TRINITONE : medium
- Set to service mode.
- Connect an oscilloscope between pin ⑤ of CN303 (A Board) and ground.
- Select "UVSH" and "UVSC", adjust them to have VB1 = VB4 and VB2 = VB3 in the wave form levels.
- Write the data into memory.

MUTING → ENTER

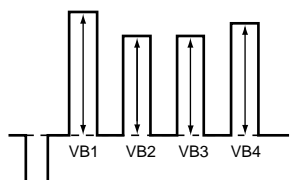
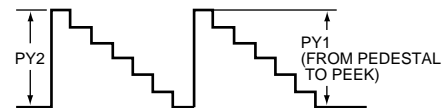


Fig. 5-7

5-9. P IN P SUB CONTRAST ADJUSTMENT (MSCN, SCON)

- Receive the 75% white color bars pattern signal.
- PICTURE : maximum
COLOR : minimum
BRIGHTNESS : center
TRINITONE : medium
- Set to P & P (■) mode, and to service mode.
- Connect an oscilloscope between pin ④ of CN305 (A Board) and ground.
- Open pin ⑦ of CN301 (A Board).
- Select "MSCN" and "SCON", adjust them to have PY1 = PY2 (470 ± 20mV) in the wave form levels.
- Write the data into memory.

MUTING → ENTER



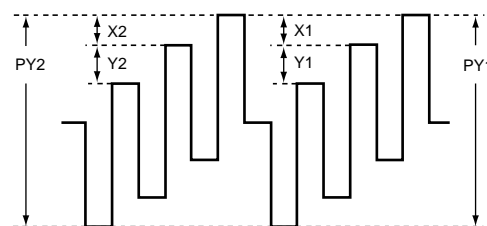
$$PY1 = PY2 = 470 \pm 20mV.$$

Fig. 5-8

5-10. P IN P SUB HUE, SUB COLOR ADJUSTMENT (MSHU, SSHU, MSCL, SSCL)

- Receive the 75% white color bars pattern signal.
- PICTURE : maximum
COLOR : center
TRINITONE : medium
- Set to P & P (■) mode, and to service mode.
- Connect an oscilloscope between pin ⑤ of CN305 (A Board) and ground.
- Select "MSHU", "SSHU", "MSCL" and "SSCL", and make adjustment sub hue and sub color so that the wave form shows X1 = Y1 and X2 = Y2.
- Raise "UVSC" data 8 steps higher.
- Write the data into memory.

MUTING → ENTER

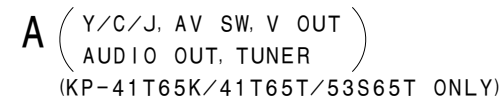


$$\begin{aligned} X1 &= Y1 \\ X2 &= Y2 \\ PY1 &= PY2 = 750 \pm 30mV. \end{aligned}$$

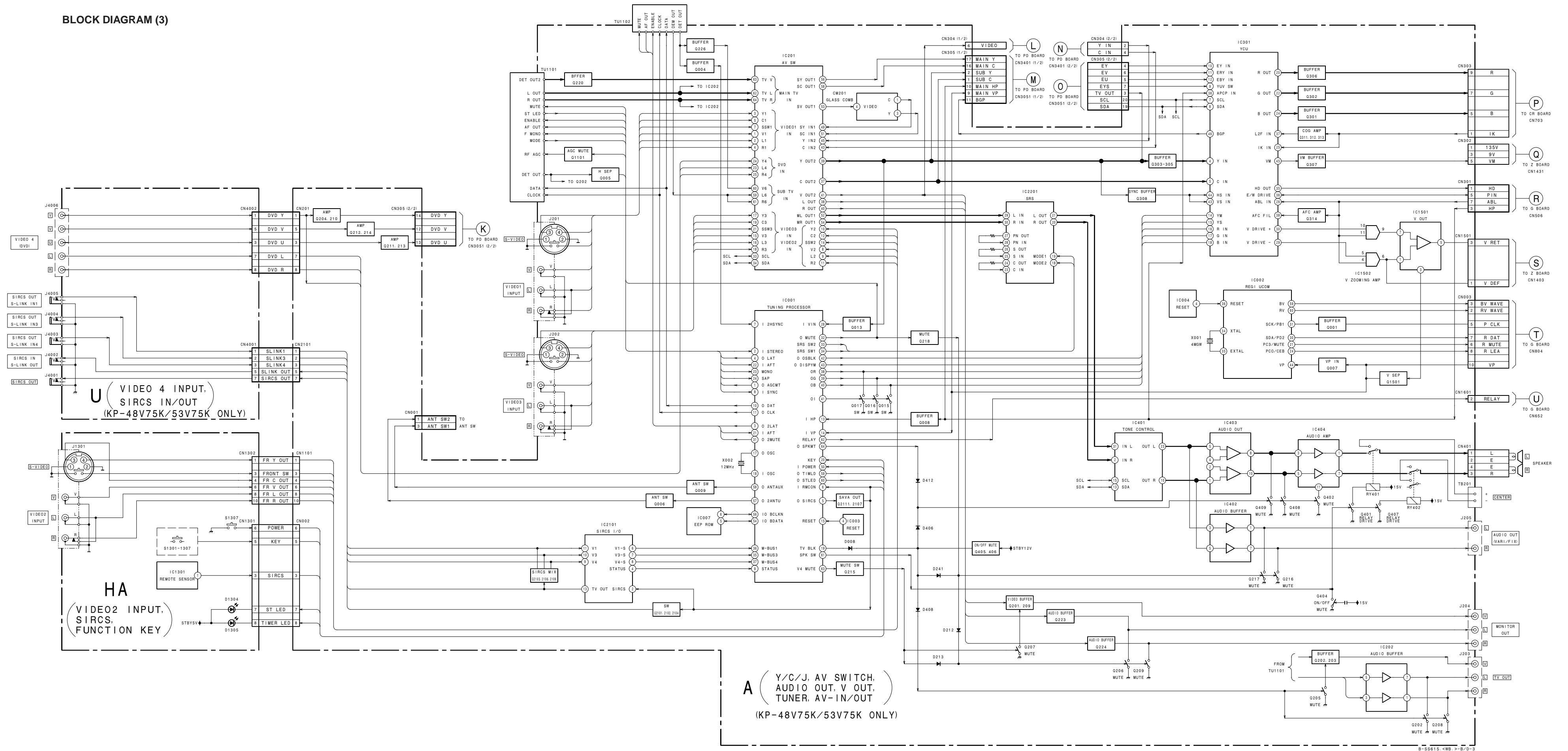
Fig. 5-9

[illegible]

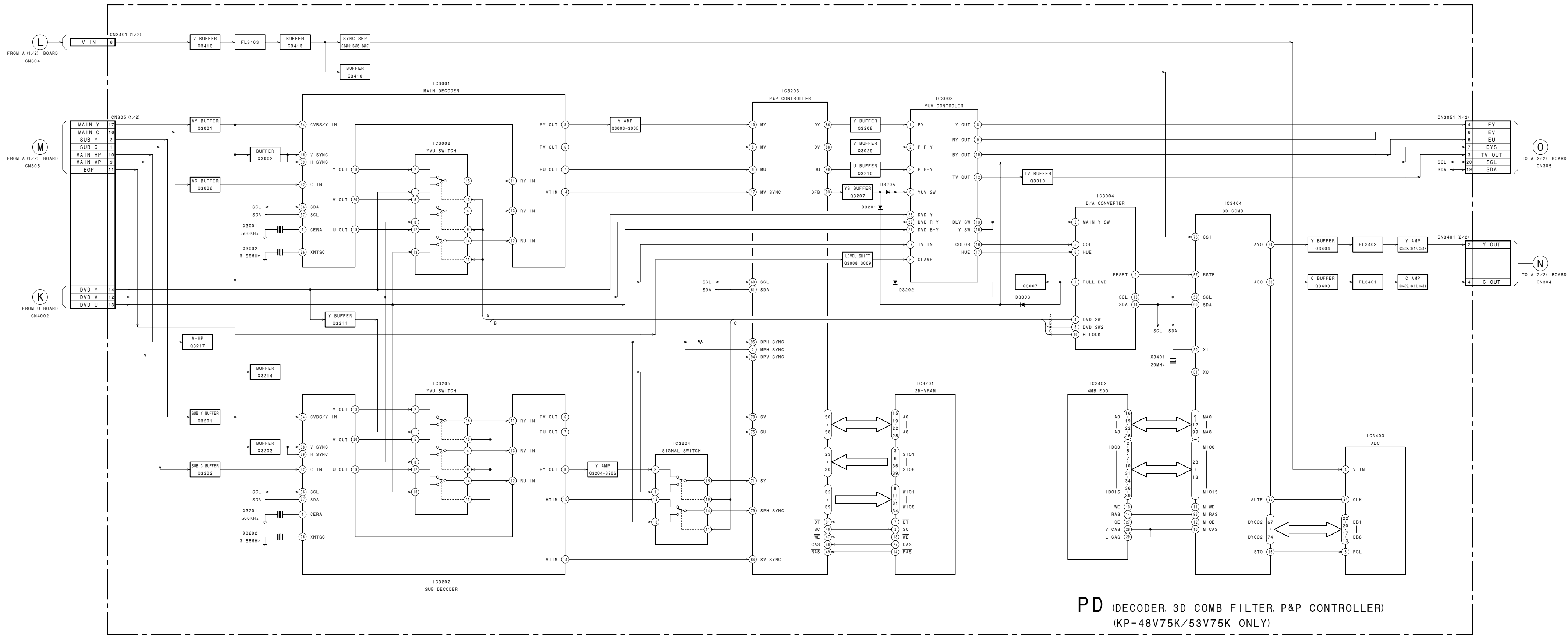
6-1. BLOCK DIAGRAM (1)



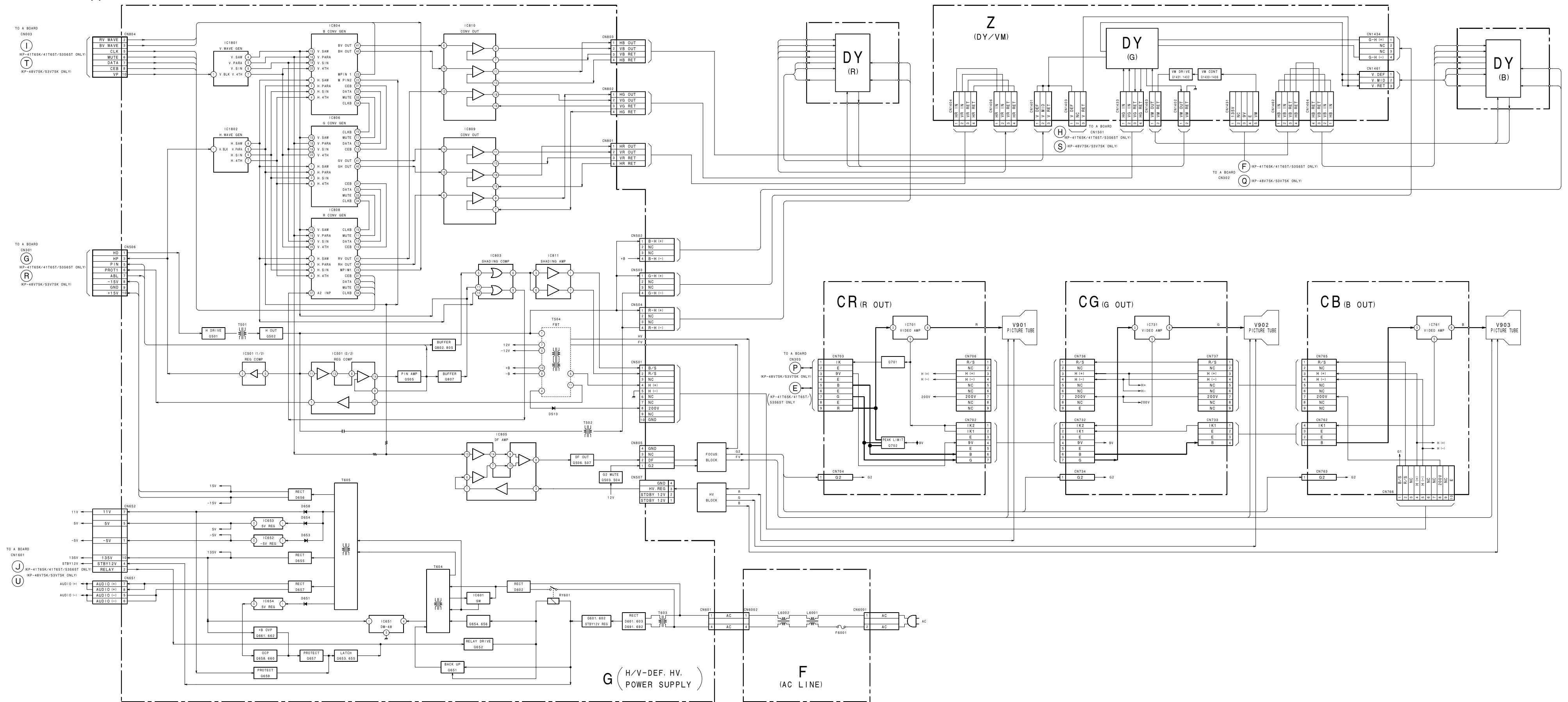
BLOCK DIAGRAM (3)

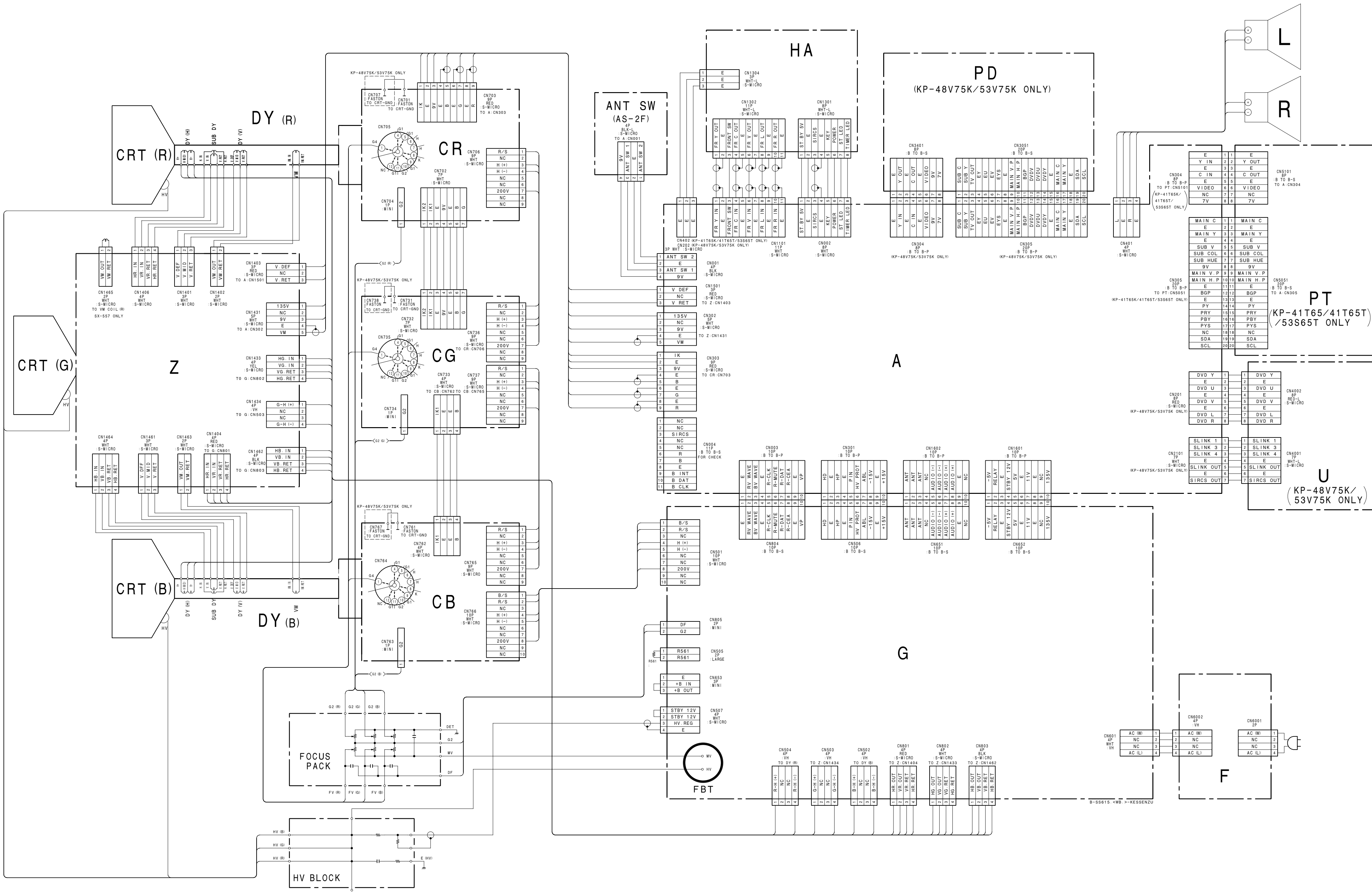


BLOCK DIAGRAM (4)

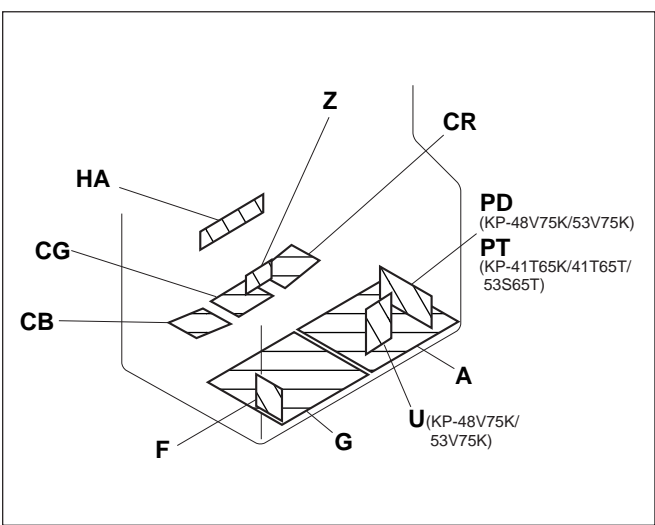


BLOCK DIAGRAM (5)





6-3. CIRCUIT BOARDS LOCATION



6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:
• Capacitors without voltage indication are all 50V.
• All resistors are in ohms.
kΩ=1000Ω, MΩ=1000kΩ
• Indication of resistance, which does not have one for rating electrical power, is as follows.
Pitch : 5mm
Rating electrical power : 1/4W

• : nonflammable resistor.
• : fusible resistor.
• : internal component.
• : panel designation and adjustment for repair.
• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
• : earth-chassis.
• The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
Should replacement be required, replace only with the value originally used.
• When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R514,R561 and C514 adjustment on Page 47 ~ 48.)
• When replacing the part in below table, be sure to perform the related adjustment.

Part replaced (■)	Adjustment (■)
C514, C515, C516, IC651, T502, T503, T504, DY	HV Reagurator (C514)
C507, C513, D501, D504, D507, IC301, IC501, IC651, R502, R514, R516, R517, R539, R560, R561, T502, T503, T504, DY	HV HOLD-DOWN (R514, R561)

• As to the voltage value shown by the semiconductors on the Schematic Diagram, see the another list
• Readings are taken with a color-bar signal input.
• Readings are taken with a 10MΩ digital multimeter.
• Voltages are dc with respect to ground unless otherwise noted.
• Voltage variations may be noted due to normal production tolerances.
• All voltages are in V.
• Measurement impossibility.
• Circled numbers are waveform references.
• : B+ bus.
• : B- bus.
• : signal path.(RF)

Reference information
RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RW NONFLAMMABLE WIREWOUND
: RS NONFLAMMABLE METAL OXIDE
: RB NONFLAMMABLE CEMENT
: X ADJUSTMENT RESISTOR
COIL : LF-BL MICRO INDUCTOR
CAPACITOR : TA TANTALUM
: PS POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

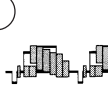

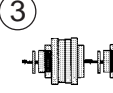


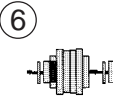
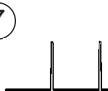
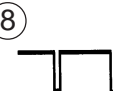
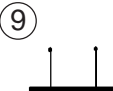



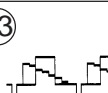
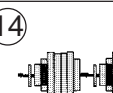
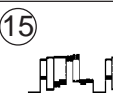



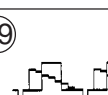

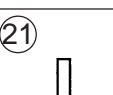

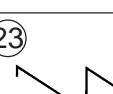
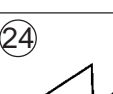


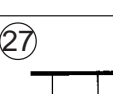
Note: The symbol is on the component side.
The components identified by shading and mark are critical for safety. Replace only with part number specified.
The symbol indicate fast operating fuse. Replace only with fuse of same rating as made.

Terminal name of semiconductors in silk screen printed circuit (※)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Anode	
⑨ Diode		Common Anode Anode	
⑩ Diode		Common Cathode Cathode	
⑪ Diode		Common Cathode Cathode	
⑫ Diode		Anode Anode Cathode	
⑬ Transistor (FET)		Drain Source Gate	
⑭ Transistor (FET)		Drain Source Gate	
—	Discrete semiconductor		

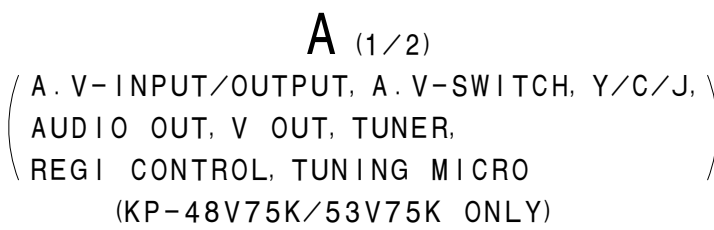
(Chip semiconductors that are not actually used are included.)

- A(1/2) BOARD WAVEFORMS

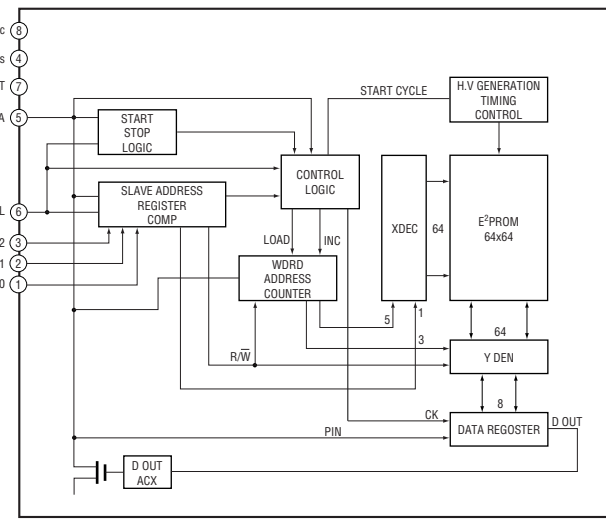
 <p>1.1Vp-p (H)</p>	 <p>1.6Vp-p (H)</p>	 <p>1.7Vp-p (H)</p>
 <p>2.4Vp-p (H)</p>	 <p>2.2Vp-p (H)</p>	 <p>1.7Vp-p (H)</p>
 <p>4.5Vp-p (H)</p>	 <p>4.9Vp-p (H)</p>	 <p>4.9Vp-p (V)</p>
 <p>3.9Vp-p (12MHz)</p>	 <p>1.9Vp-p (H)</p>	 <p>2.6Vp-p (3.58MHz)</p>
 <p>2.0Vp-p (H)</p>	 <p>1.6Vp-p (H)</p>	 <p>2.4Vp-p (H)</p>
 <p>2.3Vp-p (H)</p>	 <p>2.3Vp-p (H)</p>	 <p>1.9Vp-p (H)</p>
 <p>1.9Vp-p (H)</p>	 <p>0.2Vp-p (500kHz)</p>	 <p>4.6Vp-p (H)</p>
 <p>6.0Vp-p (H)</p>	 <p>1.3Vp-p (V)</p>	 <p>1.3Vp-p (V)</p>
 <p>60Vp-p (V)</p>	 <p>5.4Vp-p (4MHz)</p>	 <p>4.9Vp-p (V)</p>

REF.	B	VOL.	REF.	B	VOL.	REF.	B	VOL.
Q001	E	0	Q208	B	0	Q304	B	3.5
	E	GND		E	GND		E	2.9
	C	4.8		C	0		C	6.6
Q002	C	2.0	Q209	E	GND	Q305	E	5.9
	C	GND		C	0		C	8.2
	B	3.8		B	2.8		B	4.0
Q003	E	3.8	Q210	E	2.1	Q306	E	1.7
	C	GND		C	8.2		C	GND
	B	5.4		C	2.8		B	5.0
Q004	E	4.9	Q211	E	2.2	Q307	E	4.4
	C	1.0		C	8.2		C	8.9
	B	4.9		B	2.8		B	4.0
Q005	E	4.9	Q212	E	2.2	Q308	E	4.6
	C	0.7		C	8.2		C	GND
	B	8.8		B	8.2		B	3.9
Q006	E	8.9	Q213	E	8.9	Q311	E	5.2
	C	0		C	3.9		C	8.9
	B	0.1		B	3.2		B	5.7
Q007	E	GND	Q214	E	3.9	Q312	E	5.2
	C	4.8		C	8.9		C	8.9
	B	0.1		B	0		B	5.3
Q008	E	GND	Q215	E	0	Q313	E	4.8
	C	4.3		C	8.8		C	7.5
	B	5.1		B	0		B	1.5
Q009	E	5.1	Q216	E	GND	Q314	E	1.0
	C	4.8		C	0		C	4.4
	B	3.9		B	0		B	0
Q013	E	3.2	Q217	E	GND	Q401	E	GND
	C	5.0		C	0		C	14.8
	B	-0.8		B	0		B	2.0
Q015	E	GND	Q218	E	0	Q402	E	GND
	C	0		C	8.8		C	0
	B	-0.8		B	4.3		B	0.2
Q016	C	0	Q219	E	3.6	Q404	E	GND
	C	0		C	8.3		C	0
	B	0.8		B	4.4		B	8.7
Q017	E	GND	Q220	C	3.8	Q405	E	8.6
	C	0		C	8.9		C	-2.5
	B	1.5		B	4.3		B	8.7
Q201	E	0.8	Q222	E	3.6	Q406	E	8.6
	C	3.6		C	8.1		C	-2.5
	B	0		B	1.5		B	0
Q202	E	GND	Q223	E	1.0	Q407	E	GND
	C	0		C	8.9		C	14.8
	B	1.5		B	1.4		B	0
Q203	E	0.9	Q224	E	0.9	Q408	E	GND
	C	3.7		C	8.9		C	0.7
	B	8.2		B	4.3		B	0.7
Q204	E	8.9	Q226	E	3.7	Q409	E	GND
	C	3.7		C	8.5		C	0
	B	0		B	1.0		B	0
Q205	E	GND	Q301	E	0.7	Q1101	E	GND
	C	1.5		C	GND		C	2.9
	B	0		B	1.0		B	4.0
Q206	E	GND	Q302	E	1.7	Q1201	E	4.6
	C	0		C	GND		C	GND
	B	0		B	3.4		B	-0.4
Q207	E	GND	Q303	C	8.9	Q1501	E	0.7
	C	1.5		C	3.2		C	14.8

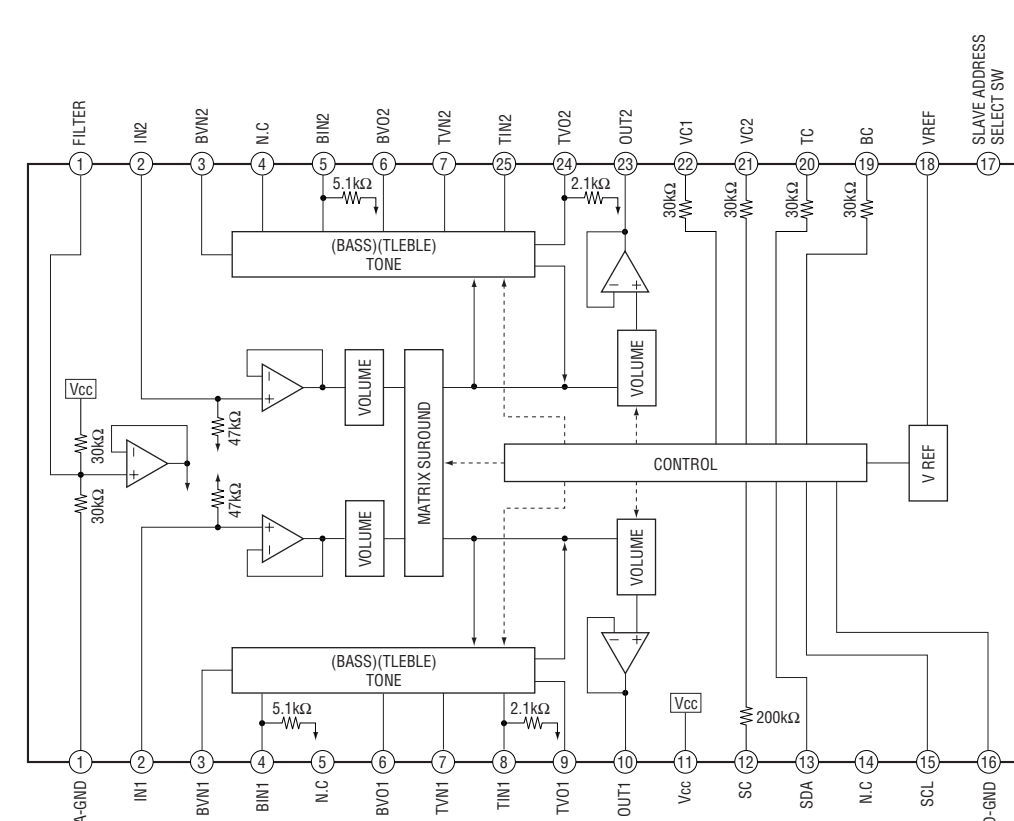
Schematic diagram



A(1/2) BOARD : IC007 ST24C04FM6TR



A(1/2) BOARD : IC401 BH3856FS-E2



A(2/2) BOARD IC VOLTAGE LIST

REF.	PH	VOL	REF.	PH	VOL
IC2101	1	5.0	IC2201	1	0
	2	4.2		2	6.3
	3	5.0		3	6.3
	4	0		4	6.3
	5	0		5	12.7
	6	0		6	GND
	7	0		7	0
	8	0		8	6.3
	9	0		9	6.3
	10	0		10	6.3
	11	0		11	6.3
	12	0		12	6.3
	13	0		13	6.3
	14	0		14	6.3
	15	0		15	6.3
	16	0		16	6.3
	17	0		17	6.3
	18	0		18	6.3
	19	0		19	6.3
	20	0		20	6.3
	21	0		21	6.3
	22	0		22	6.3
	23	0		23	6.3
	24	0		24	6.3
	25	0		25	6.3
	26	0		26	6.3
	27	0		27	6.3
	28	0		28	6.3
	29	0		29	6.3
	30	0		30	6.3
	31	0		31	6.3
	32	0		32	6.3
	33	0		33	6.3
	34	0		34	6.3
	35	0		35	6.3
	36	0		36	6.3
	37	0		37	6.3
	38	0		38	6.3
	39	0		39	6.3
	40	0		40	6.3
	41	0		41	6.3
	42	0		42	6.3
	43	0		43	6.3
	44	0		44	6.3
	45	0		45	6.3
	46	0		46	6.3
	47	0		47	6.3
	48	0		48	6.3
	49	0		49	6.3
	50	0		50	6.3
	51	0		51	6.3
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	94	0		94	6.3
	95	0		95	6.3
	96	0		96	6.3
	97	0		97	6.3
	98	0		98	6.3
	99	0		99	6.3
	100	0		100	6.3

*All voltage are in V.
*Pin number which are not described are not used.

A(2/2) BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.
Q2101	B 0.7
	E GND
Q2102	C 0.3
	B 4.8
	E 4.2
Q2103	C 5.0
	B 5.0
	E 0
Q2104	C 0
	B 4.3
	E 5.0
Q2106	C 5.0
	B 5.0
	E 0
Q2107	C 0
	B 4.7
	E 5.0
Q2109	C 4.6
	B 5.0
	E 0
Q2111	C 0
	B 0.1
	E GND

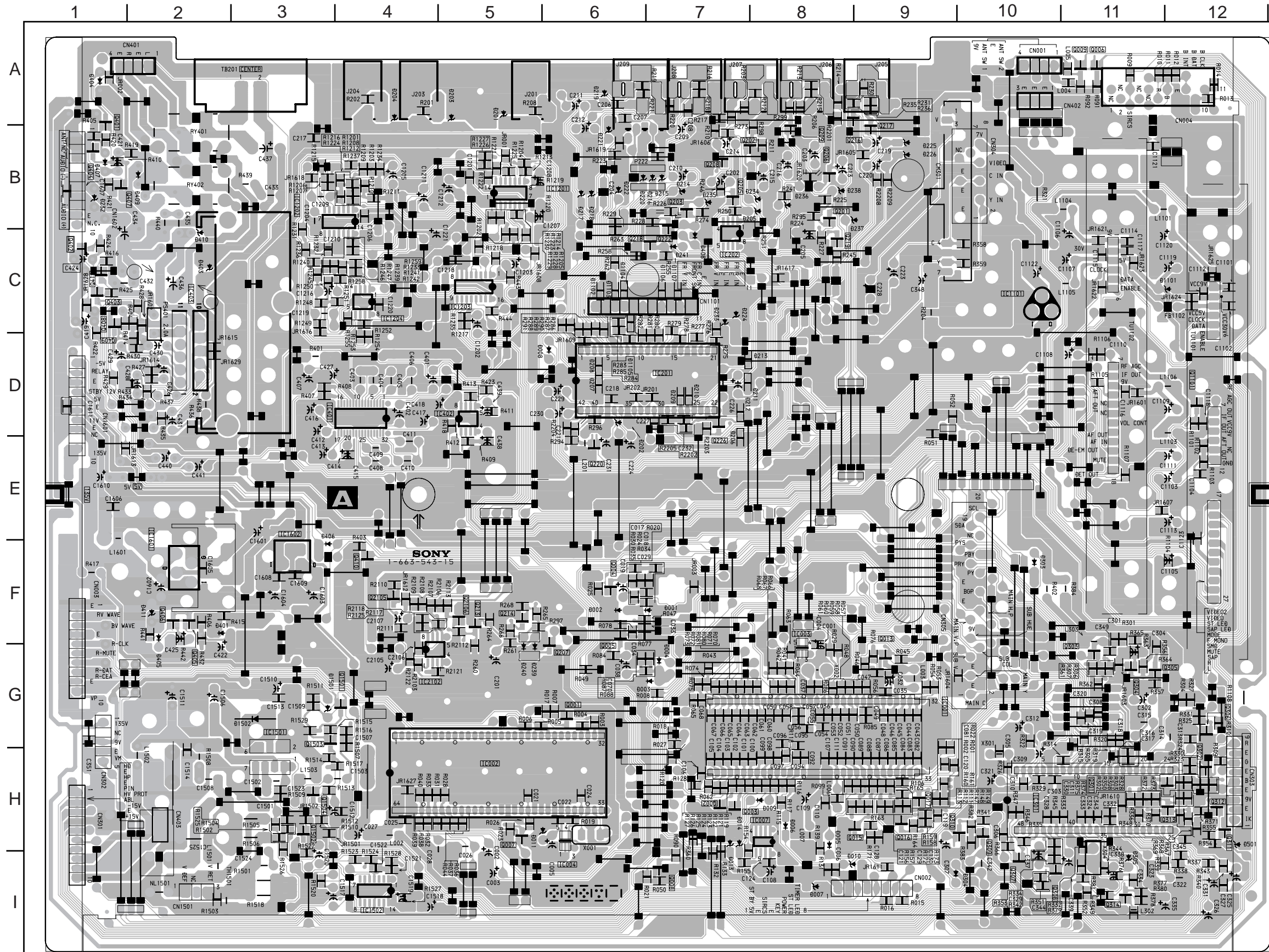
A BOARD IC VOLTAGE LIST											
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC001	①	0	IC001	⑩	0	IC001	⑨	4.9	IC001	⑧	4.9
	②	0		⑪	0		⑪	4.2		⑦	4.4
	③	0		⑫	0		⑫	4.8		⑥	4.4
	④	0		⑬	0		⑬	4.7		⑤	4.4
	⑤	0		⑭	0		⑭	5.0		④	4.4
	⑥	0		⑮	0		⑮	4.7		③	4.4
	⑦	0		⑯	0		⑯	4.2		②	4.4
	⑧	0		⑰	0		⑰	4.2		①	4.4
	⑨	0		⑱	0		⑱	4.2		①	4.4
	⑩	0		⑲	0		⑲	4.2		①	4.4
	⑪	0		⑳	0		⑳	4.2		①	4.4
	⑫	0		㉑	0		㉑	4.2		①	4.4
IC002	①	0	IC002	⑩	0	IC002	⑨	4.9	IC002	⑧	4.9
	②	0		⑪	0		⑪	4.2		⑦	4.4
	③	0		⑫	0		⑫	4.8		⑥	4.4
	④	0		⑬	0		⑬	4.7		⑤	4.4
	⑤	0		⑭	0		⑭	5.0		④	4.4
	⑥	0		⑮	0		⑮	4.7		③	4.4
	⑦	0		⑯	0		⑯	4.2		②	4.4
	⑧	0		⑰	0		⑰	4.2		①	4.4
	⑨	0		⑱	0		⑱	4.2		①	4.4
	⑩	0		⑲	0		⑲	4.2		①	4.4
	⑪	0		⑳	0		⑳	4.2		①	4.4
	⑫	0		㉑	0		㉑	4.2		①	4.4
IC003	①	0	IC003	⑩	0	IC003	⑨	4.9	IC003	⑧	4.9
	②	0		⑪	0		⑪	4.2		⑦	4.4
	③	0		⑫	0		⑫	4.8		⑥	4.4
	④	0		⑬	0		⑬	4.7		⑤	4.4
	⑤	0		⑭	0		⑭	5.0		④	4.4
	⑥	0		⑮	0		⑮	4.7		③	4.4
	⑦	0		⑯	0		⑯	4.2		②	4.4
	⑧	0		⑰	0		⑰	4.2		①	4.4
	⑨	0		⑱	0		⑱	4.2		①	4.4
	⑩	0		⑲	0		⑲	4.2		①	4.4
	⑪	0		⑳	0		⑳	4.2		①	4.4
	⑫	0		㉑	0		㉑	4.2		①	4.4
IC004	①	0	IC004	⑩	0	IC004	⑨	4.9	IC004	⑧	4.9
	②	0		⑪	0		⑪	4.2		⑦	4.4
	③	0		⑫	0		⑫	4.8		⑥	4.4
	④	0		⑬	0		⑬	4.7		⑤	4.4
	⑤	0		⑭	0		⑭	5.0		④	4.4
	⑥	0		⑮	0		⑮	4.7		③	4.4
	⑦	0		⑯	0		⑯	4.2		②	4.4
	⑧	0		⑰	0		⑰	4.2		①	4.4
	⑨	0		⑱	0		⑱	4.2		①	4.4
	⑩	0		⑲	0		⑲	4.2		①	4.4
	⑪	0		⑳	0		⑳	4.2		①	4.4
	⑫	0		㉑	0		㉑	4.2		①	4.4

*All voltage are in V.
*Pin number which are not described are not used.

A BOARD TRANSISTOR VOLTAGE LIST											
REF.	VOL.		REF.	VOL.		REF.	VOL.				
Q001	B	0	Q213	B	4.9	Q312	B	5.7			
	E	GND		E	5.0		E	5.1			
	C	4.8		C	0.3		C	8.8			
Q002	B	0	Q214	B	5.0	Q313	B	5.3			
	E	2.0		E	5.0		E	4.9			
	C	GND		C	4.9		C	7.7			
Q003	B	3.8	Q216	B	0	Q314	B	1.5			
	E	3.8		E	GND		E	0.9			
	C	B		C	0		C	4.5			
Q004	B	5.4	Q217	B	0	Q402	B	3.6			
	E	4.9		E	GND		E	GND			
	C	1.0		C	0		C	0			
Q005	B	4.9	Q218	B	0	Q403	B	13.2			
	E	4.9		E	0		E	28.3			
	C	0.7		C	8.9		C	26.2			
Q006	B	8.8	Q219	B	5.1	Q405	B	11.8			
	E	8.9		E	4.5		E	11.9			
	C	0.2		C	8.2		C	-1.3			
Q007	B	0.1	Q220	B	4.8	Q406	B	0.9			
	E	GND		E	4.1		E	11.8			
	C	4.8		C	9.0		C	-1.3			
Q008	B	0.1	Q225	B	5.1	Q408	B	3.6			
	E	4.4		E	4.4		E	26.3			
	C	4.3		C	8.4		C	0			
Q009	B	0	Q301	B	0.9	Q409	B	3.6			
	E	5.3		E	1.5		E	GND			
	C	4.8		C	GND		C	0			
Q013	B	4.3	Q302	B	0.9	Q410	B	3.6			
	E	3.7		E	1.5		E	3.6			
	C	5.0		C	4.8		C	4.9			
Q015	B	-0.2	Q303	B	GND	Q411	B	13.2			
	E	GND		E	30.9		E	28.3			
	C	0		C	8.8		C	26.2			
Q016	B	-0.2	Q304	B	2.5	Q1101	B	0			
	E	GND		E	3.9		E	GND			
	C	0		C	6.6		C	4.1			
Q017	B	-0.2	Q305	B	6.6	Q1501	B	-0.4			
	E	GND		E	5.9		E	0.1			
	C	0		C	8.2		C	14.4			
Q201	B	1.5	Q306	B	0.9	Q2105	B	0.6			
	E	0.8		E	1.6		E	GND			
	C	4.5		C	GND		C	0			
Q206	B	0	Q307	B	5.0	Q2106	B	0			
	E	GND		E	4.3		E	0			
	C	0		C	8.8		C	5.0			
Q207	B	0	Q308	B	0		B	0			
	E	GND		E	GND		E	GND			
	C	5.3		C	5.1		C	0			
Q209	B	0	Q311	B	4.2		B	0			
	E	GND		E	5.1		E	0			
	C	0		C	8.8		C	0			

A [TUNER, AV SW, Y/C/J,AUDIO OUT, V OUT]
AV INPUT
(KP-41T65K/41T65T/53S65T ONLY)

— A Board —

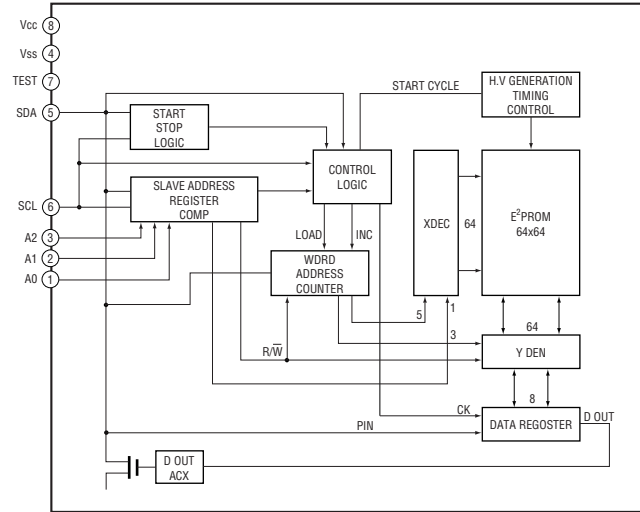


A BOARD

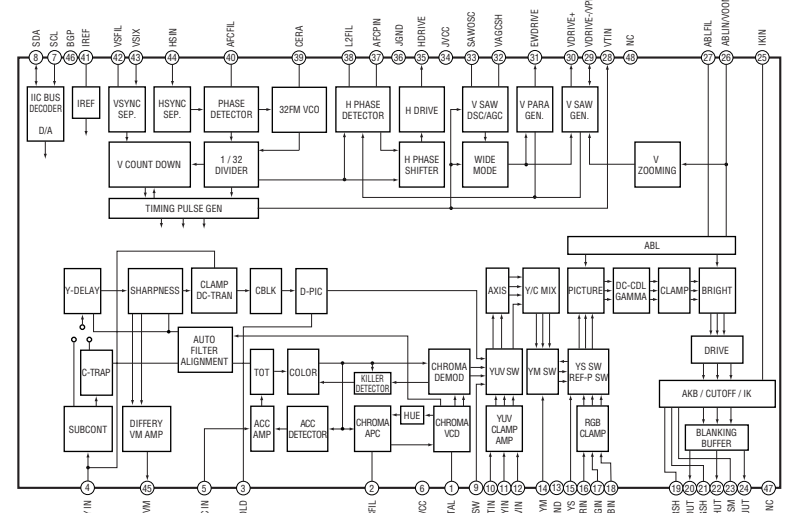
DIODE			
D001	F-6	①	Q006 A-11 ①
D002	F-6	①	Q007 H-5 ①
D003	G-6	①	Q008 I-7 ①
D004	G-7	①	Q009 A-11 ①
D007	I-8	①	Q013 G-9 ①
D010	I-8	①	Q015 H-8 ①
D011	H-5	①	Q016 H-9 ①
D202	D-6	①	Q017 H-9 ①
D203	D-7	①	Q201 B-8 ①
D206	D-7	①	Q206 B-8 ①
D207	D-6	①	Q207 F-5 ①
D208	D-6	①	Q209 A-8 ①
D209	D-7	①	Q213 F-5 ①
D210	D-7	①	Q214 F-5 ①
D211	D-7	①	Q216 A-8 ①
D212	D-7	①	Q217 A-9 ①
D213	D-7	①	Q218 C-6 ①
D214	B-7	①	Q219 C-8 ①
D215	B-7	①	Q220 E-6 ①
D216	B-6	①	Q226 D-7 ①
D217	B-6	①	Q301 H-11 ①
D218	B-6	①	Q302 H-12 ①
D219	A-6	①	Q303 G-11 ①
D220	B-6	①	Q304 G-11 ①
D221	B-6	①	Q305 G-11 ①
D222	B-6	①	Q306 G-12 ①
D225	B-9	①	Q307 I-10 ①
D226	B-9	①	Q308 I-10 ①
D232	B-1	①	Q311 H-12 ①
D236	B-8	①	Q312 H-12 ①
D237	B-8	①	Q313 H-11 ①
D238	B-8	①	Q314 I-11 ①
D239	F-5	①	Q402 C-1 ①
D240	F-5	①	Q403 C-1 ①
D241	C-7	①	Q405 F-2 ①
D305	I-11	①	Q406 F-2 ①
D401	F-2	①	Q408 C-1 ①
D403	C-2	①	Q409 D-1 ①
D405	F-2	①	Q410 F-4 ①
D406	F-3	①	Q411 C-1 ①
D408	C-7	①	Q1101 D-12 ①
D410	C-2	①	Q1501 G-3 ①
D411	F-2	①	Q2105 F-4 ①
D1101	C-11	①	Q2106 F-5 ①
D1102	C-6	①	
D1103	C-6	①	
D1104	C-6	①	
D1105	C-6	①	
D1106	C-7	①	
D1107	C-7	①	
D1501	G-3	①	
D1502	G-3	①	

TRANSISTOR			
Q001	G-1	①	IC001 G-8
Q002	H-7	①	IC002 H-5
Q003	H-7	①	IC003 F-8
Q004	F-6	①	IC004 H-6
Q005	F-6	①	IC007 H-8
			IC201 D-6
			IC301 H-11
			IC401 D-4
			IC402 D-5
			IC403 D-2
			IC1101 C-10
			IC1501 G-3
			IC1502 I-4
			IC1601 F-2
			IC1602 F-3

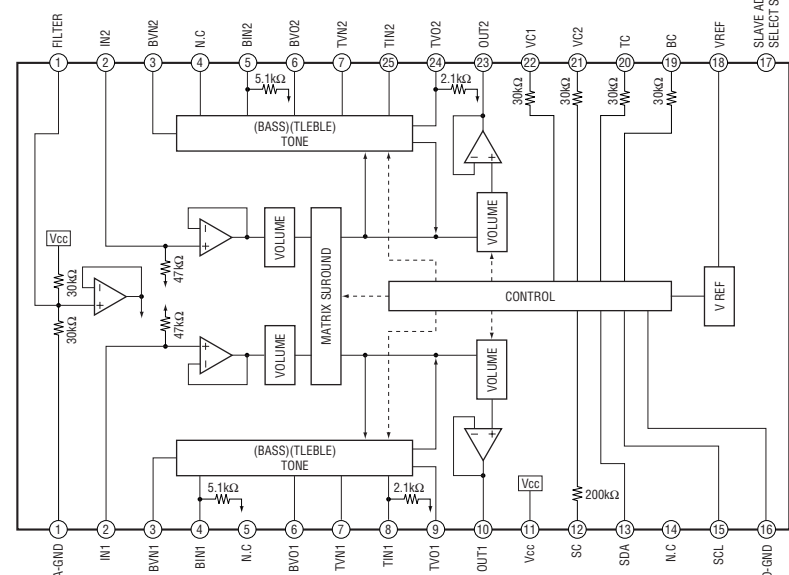
A BOARD : IC007 ST24C04FM6TR



A BOARD : IC301 CXA2025AS



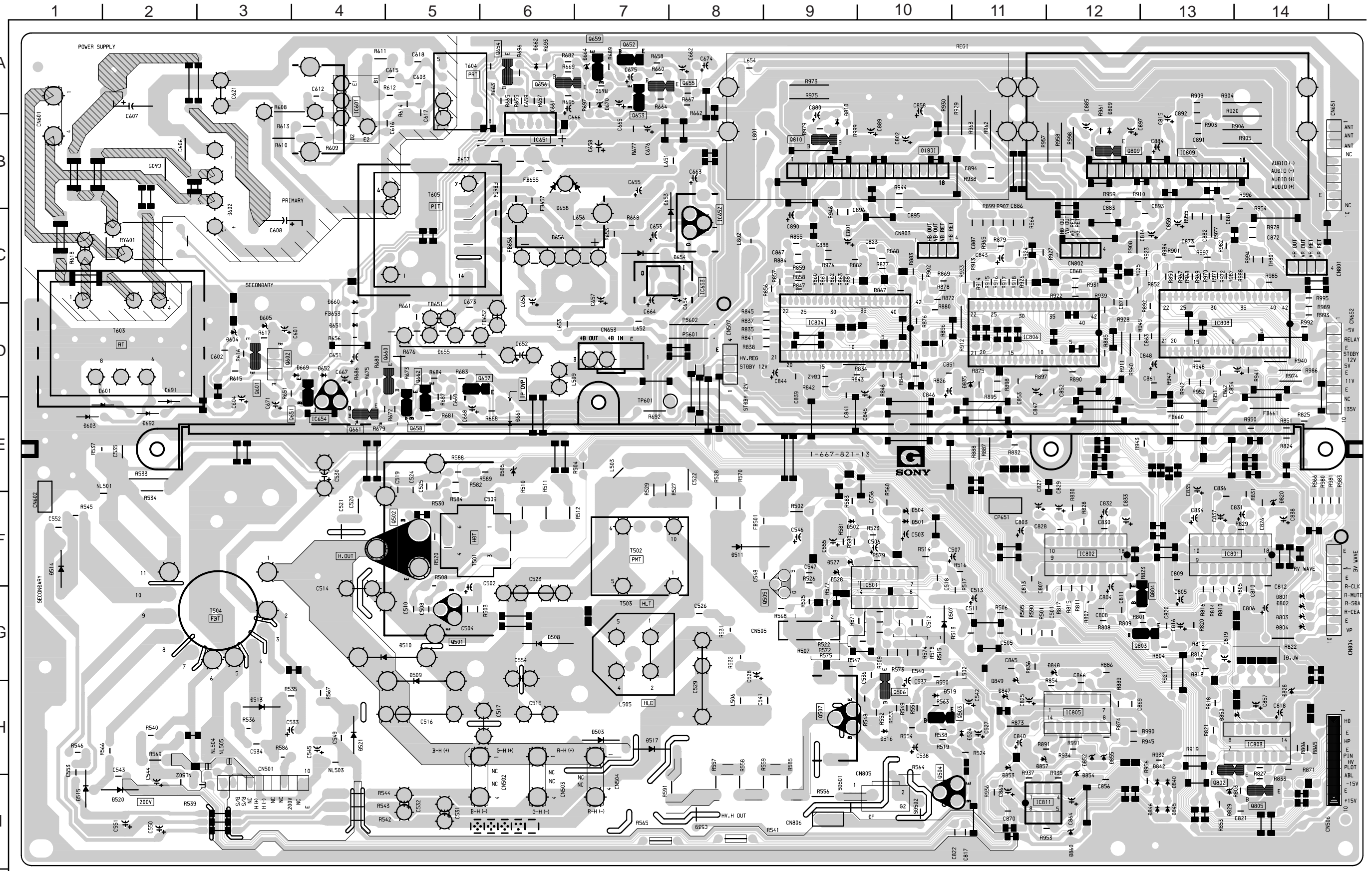
A BOARD : IC401 BH3856FS

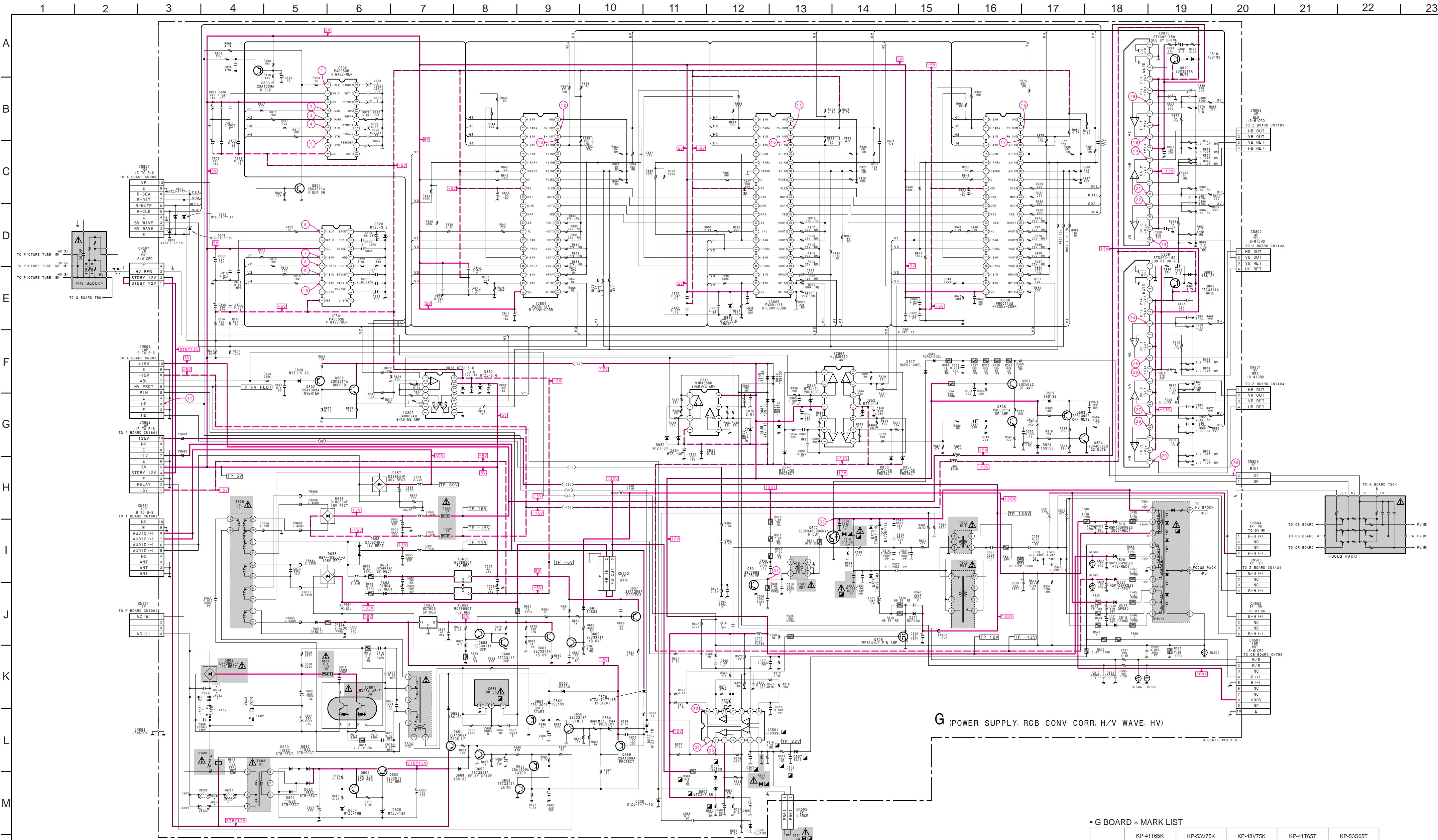


DIODE		*	D849	G-11	—
D501	F-10	—	D850	H-14	—
D502	F-9	—	D852	H-12	—
D503	H-7	—	D853	H-11	—
D504	F-10	—	D854	H-12	—
D507	H-10	—	D855	H-12	—
D508	G-6	—	D856	H-12	—
D509	G-5	—	D857	H-11	—
D510	G-4	—	D859	I-11	—
D511	F-8	—	D860	I-12	—
D513	H-3	—	TRANSISTOR *		
D514	F-1	—	Q501	G-5	—
D515	I-1	—	Q502	F-5	—
D517	H-7	—	Q503	H-10	—
D519	H-10	—	Q504	I-11	—
D520	I-2	—	Q505	F-9	—
D521	H-4	—	Q506	H-10	—
D524	H-11	—	Q507	H-9	—
D527	F-9	—	Q651	D-4	—
D528	F-9	—	Q652	A-7	—
D602	B-3	—	Q653	A-7	—
D651	D-4	—	Q654	A-6	—
D652	D-4	—	Q655	A-7	—
D653	C-7	—	Q656	A-6	—
D654	C-7	—	Q657	D-5	—
D655	D-5	—	Q658	E-5	—
D656	C-6	—	Q659	A-7	—
D657	B-6	—	Q660	D-5	—
D658	B-6	—	Q661	E-4	—
D660	D-4	—	Q662	D-5	—
D661	E-6	—	Q802	H-13	—
D662	A-6	—	Q803	G-13	—
D664	A-7	—	Q804	G-13	—
D669	D-3	—	Q805	I-14	—
D670	A-7	—	Q809	B-12	—
D691	E-1	—	Q810	B-9	—
D692	E-2	—	IC		
D693	E-2	—	IC501	F-10	—
D694	E-1	—	IC601	A-4	—
D801	G-14	—	IC651	B-6	—
D802	G-14	—	IC652	C-8	—
D803	G-14	—	IC653	C-7	—
D804	G-14	—	IC654	E-4	—
D809	B-12	—	IC655	E-3	—
D810	B-9	—	IC801	F-14	—
D820	F-14	—	IC802	F-12	—
D828	H-14	—	IC803	H-14	—
D829	I-13	—	IC804	D-9	—
D835	D-11	—	IC805	H-12	—
D840	I-13	—	IC806	D-11	—
D842	I-13	—	IC808	D-13	—
D845	I-13	—	IC809	B-13	—
D846	I-13	—	IC810	B-10	—
D847	H-11	—	IC811	I-11	—
D848	G-12	—			

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing

– G Board –





G BOARD IC VOLTAGE LIST

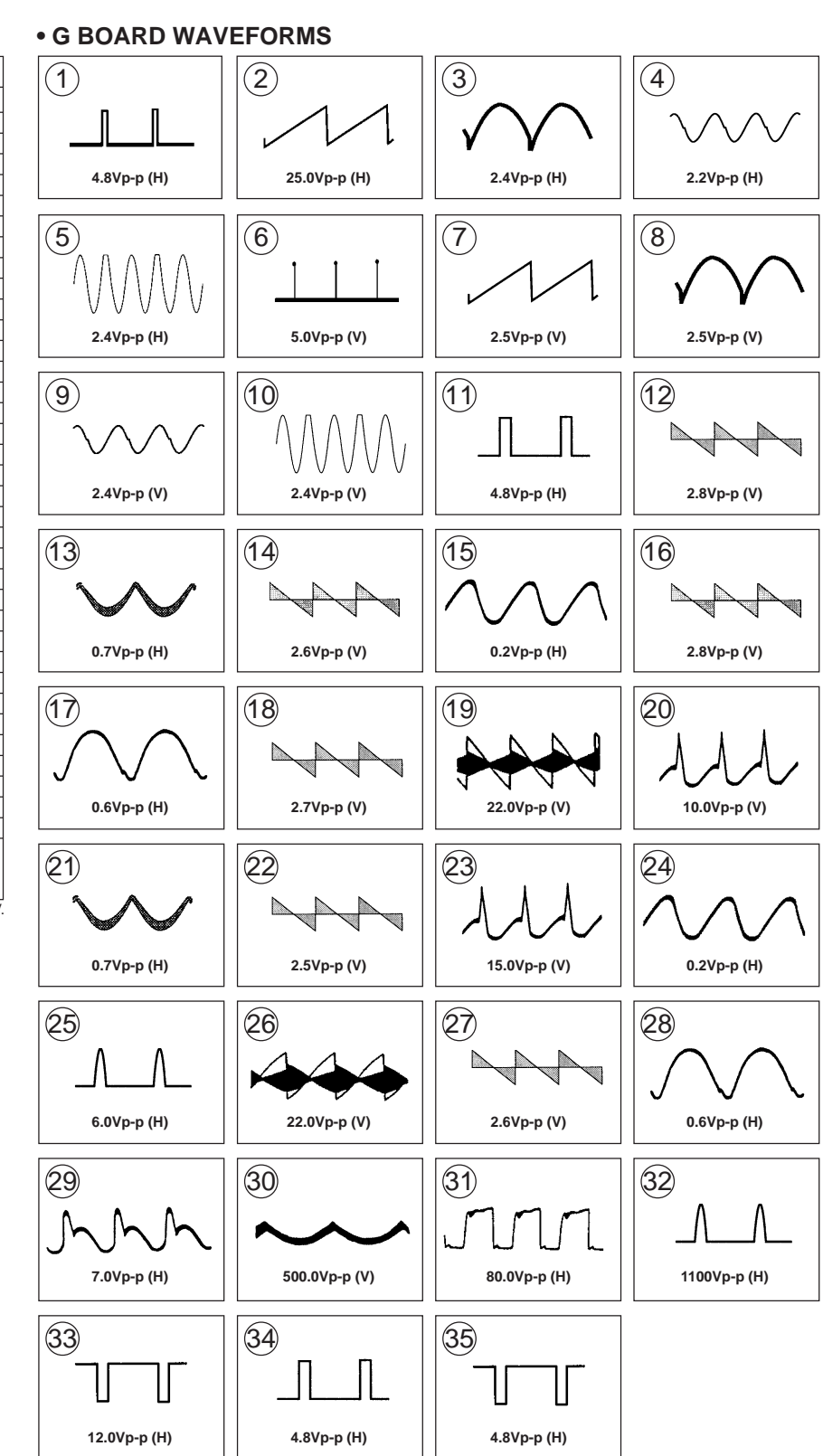
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC501	①	3.4	IC802	①	0.5	IC804	①	0	IC806	①	0	IC808	①	0
	②	0.7		②	1.1		②	0.5		②	0		②	0
	③	12.1		③	4.9		③	4.7		③	4.7		③	0
	④	0		④	0.1		④	0		④	0		④	0
	⑤	1.8		⑤	-0.9		⑤	4.9		⑤	0		⑤	0
	⑥	7.9		⑥	0		⑥	4.8		⑥	0.4		⑥	-0.2
	⑦	8.1		⑦	-1.0		⑦	0		⑦	4.7		⑦	0.4
	⑧	1.4		⑧	-5.1		⑧	0		⑧	0.1		⑧	GND
	⑨	2.2		⑨	0		⑨	0		⑨	4.9		⑨	GND
	⑩	5.5		⑩	-0.9		⑩	5.5		⑩	4.8		⑩	GND
IC501	⑪	1.8		⑪	0.3		⑪	0		⑪	0		⑪	-14.3
	⑫	GND		⑫	1.2		⑫	0		⑫	0		⑫	-15.3
	⑬	9.9		⑬	-1.9		⑬	GND		⑬	0		⑬	14.5
	⑭	GND		⑭	7.2		⑭	0		⑭	0		⑭	-0.1
	⑮	-1.9		⑮	-1.1		⑮	7.2		⑮	0		⑮	-15.3
	⑯	136.0		⑯	-0.4		⑯	7.0		⑯	0.1		⑯	-0.2
	⑰	274.0		⑰	-0.4		⑰	12.1		⑰	GND		⑰	14.5
	⑱	136.0		⑱	-0.3		⑱	0		⑱	0		⑱	0.5
	⑲	134.0		⑲	-0.3		⑲	0		⑲	-0.9		⑲	-15.3
	⑳	134.0		㉑	1.6		㉑	0		㉑	0		㉑	0.3
IC501	㉒	2.4		㉒	0.3		㉒	-0.8		㉒	-1.0		㉒	0.3
	㉓	13.8		㉓	GND		㉓	0		㉓	0		㉓	-0.2
	㉔	GND		㉔	0		㉔	0		㉔	-0.4		㉔	-15.3
	㉕	-11.5		㉕	0		㉕	-12.3		㉕	4.9		㉕	-15.3
	㉖	GND		㉖	0		㉖	0		㉖	4.9		㉖	GND
	㉗	10.6		㉗	-5.1		㉗	0.8		㉗	4.8		㉗	GND
	㉘	GND		㉘	0		㉘	0		㉘	4.9		㉘	-14.5
	㉙	18.0		㉙	-0.9		㉙	-0.9		㉙	0.1		㉙	-15.3
	㉚	GND		㉚	-1.0		㉚	-2.1		㉚	4.7		㉚	14.5
	㉛	1.2		㉛	-0.5		㉛	-0.5		㉛	0.2		㉛	0.2
IC501	㉜	4.9		㉜	0		㉜	0		㉜	0		㉜	-15.3
	㉝	15.7		㉝	-0.4		㉝	-0.4		㉝	-0.8		㉝	-15.3
	㉞	GND		㉞	-5.1		㉞	GND		㉞	0		㉞	0.3
	㉟	11.9		㉟	4.9		㉟	4.9		㉟	-0.9		㉟	14.5
	㊱	0.2		㊱	-5.1		㊱	-5.1		㊱	0		㊱	0.1
	㊲	1.2		㊲	-2.2		㊲	-0.5		㊲	4.8		㊲	-15.3
	㊳	4.9		㊳	0		㊳	0		㊳	4.9		㊳	0
	㊴	0		㊴	-0.8		㊴	0.1		㊴	0		㊴	0
	㊵	-0.8		㊵	4.7		㊵	0		㊵	0		㊵	0.1
	㊶	0		㊶	-0.9		㊶	-2.1		㊶	0		㊶	0.1
IC501	㊷	-1.1		㊷	0		㊷	-0.5		㊷	-0.5		㊷	-15.3
	㊸	0.4		㊸	-0.5		㊸	-0.8		㊸	0		㊸	-1.2
	㊹	-0.9		㊹	0		㊹	-0.9		㊹	0		㊹	-0.3
	㊺	0.3		㊺	-0.1		㊺	0		㊺	0.2		㊺	-0.3
	㊻	1.2		㊻	-0.4		㊻	-0.5		㊻	0.2		㊻	-12.3
	㊼	GND		㊼	-0.4		㊼	4.9		㊼	4.7		㊼	GND
	㊽	-1.5		㊽	-0.4		㊽	0		㊽	0		㊽	0.6
	㊾	1.2		㊾	0		㊾	4.9		㊾	4.8		㊾	12.1
	㊿	-1.6		㊿	0		㊿	0		㊿	4.8		㊿	0
	㊿	0		㊿	0		㊿	0		㊿	0		㊿	0

• All voltage are in V.
• Pin number which are not described are not used.
• The figures in the parenthesis are the voltage difference from primary side ground.

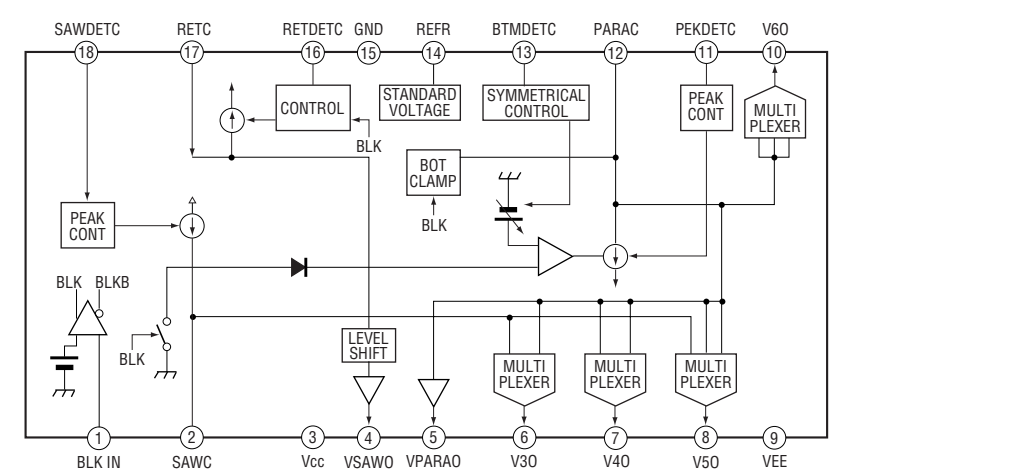
G BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q501	B -0.4	Q657	B 4.9
	E GND		E 4.9
	C 47.0		C 0
Q502	B 0	Q658	B 0.6
	E GND		E 0.4
	C 140.0		C 4.9
Q503	B 0.5	Q659	B 17.6
	E 2.4		E 17.6
	C 0		C 0
Q504	B 0	Q660	B 0.6
	E GND		E GND
	C 0.5		C 0.6
Q505	B 9.9	Q661	B 3.1
	E 21.9		E 2.4
	C 136.2		C 5.2
Q506	B 1.7	Q662	B 2.7
	E 1.1		E 2.4
	C 11.3		C 4.9
Q507	B 12.1	Q802	B 4.0
	E 11.5		E 4.9
	C 2.3		C 2.3
Q508	B 11.2	Q803	B 2.3
	E 11.9		E 0.5
	C 11.9		C 0
Q509	B 0.7	Q804	B 0
	E GND		E GND
	C 0		C 0.5
Q510	B 0	Q805	B 1.7
	E GND		E 1.7
	C 13.6		C 12.1
Q511	B 13.6	Q806	B -15.3
	E -15.3		E -14.3
	C GND		C -15.3
Q512	B 1.7	Q807	B -15.3
	E -15.3		E -15.3
	C 0		C -15.3
Q513	B 0	Q808	B 0
	E GND		E GND
	C 13.6		C -14.5

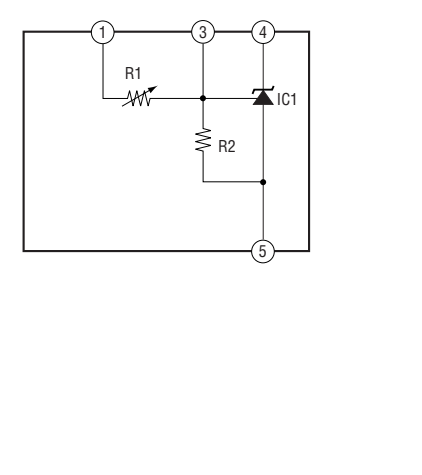
All voltages are in V.



G BOARD : IC801, 802 PA0053B



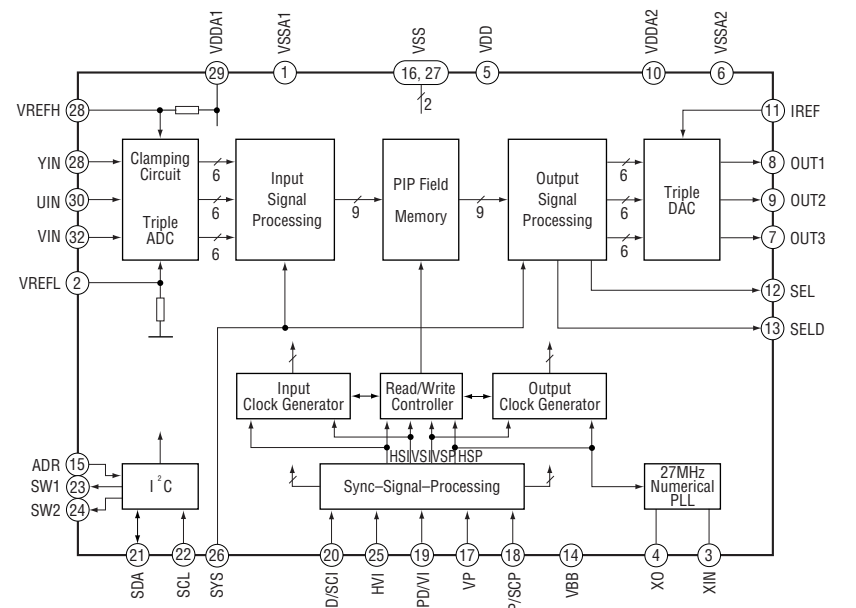
G BOARD : IC651 DM-58



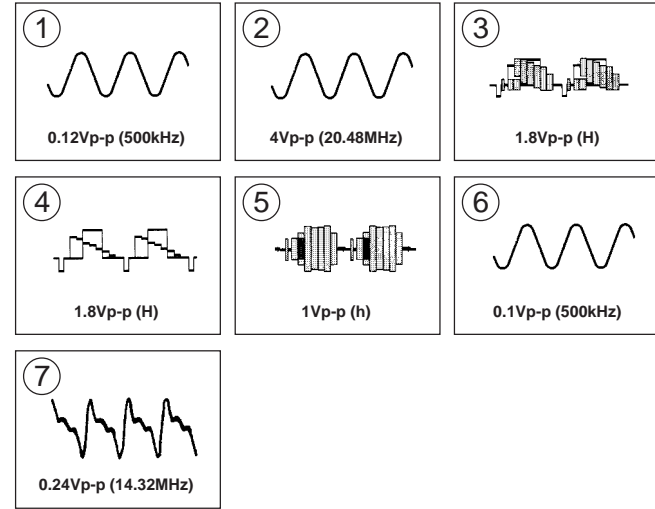
G BOARD MARK LIST

	KP-41T65K	KP-53V75K	KP-48V75K	KP-41T65T	KP-53S65T
C605	0.0022 250V	0.0022 250V	-	-	-
FB605	0.45UH	JW (5MM)	JW (5MM)	0.45UH	0.45UH
JW222	10MM	10MM	-	-	-
JW223	10MM	10MM	-	-	-
JW224	-	-	-	12.5MM	12.5MM
JW225	-	-	-	12.5MM	12.5MM
JW233	-	-	-	7.5MM	7.5MM
JW234	-	-	-	7.5MM	7.5MM
JW235	-	-	-	12.5MM	12.5MM
JW236	-	-	-	12.5MM	12.5MM
JW237	12.5MM	12.5MM	-	-	-
JW238	12.5MM	12.5MM	-	-	-
JW239	-	-	-	12.5MM	12.5MM
JW240	-	-	-	12.5MM	12.5MM
R540	0.68	0.47	0.68	0.68	0.68
R542	68 1W RS	150 1W RS	68 1W RS	68 1W RS	150 1W RS
R544	68 1W RS	150 1W RS	68 1W RS	150 1W RS	150 1W RS
R569	1.8 3W RS	1 3W RS	1.8 3W RS	1.8 3W RS	1.8 3W RS
T605	1-429-985-11 PIT	1-429-986-11 PIT	1-429-986-11 PIT	1-429-985-11 PIT	1-429-985-11 PIT

PT BOARD : IC5052 SDA9288X-GEG



• PT BOARD WAVEFORMS



PT BOARD IC VOLTAGE LIST

REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC5001	①	2.3	IC501	⑩	4.9
	②	4.1		⑪	GND
	③	9.0		⑫	GND
	④	0		⑬	GND
	⑤	GND		⑭	1.5
	⑥	9.0		⑮	1.0
	⑦	1.0		⑯	3.8
	⑧	4.5		⑰	4.5
	⑨	4.6		⑱	2.6
	⑩	0.1		⑲	GND
	⑪	0.7		⑳	0.9
	⑫	4.9		㉑	2.9
	⑬	2.9		㉒	1.8
	⑭	2.9		㉓	1.8
	⑮	GND		㉔	0.9
	⑯	GND		㉕	0
	⑰	9.0		㉖	2.4
	⑱	4.5		㉗	4.9
	㉑	GND		㉘	0.9
	㉒	3.3	IC502	①	GND
IC5052	③	3.6		②	GND
	④	GND		③	4.9
	⑤	4.8		④	4.8
	⑥	4.1		⑤	5.0
	⑦	3.3		⑥	0
	⑧	0.7		⑦	GND
	⑨	GND		⑧	4.9
	⑩	2.9		⑨	GND
	⑪	2.4		⑩	GND
	⑫	2.2	IC5101	①	2.2
IC5101	⑬	0.4		②	2.0
	⑭	4.9		③	2.5
	⑮	0		④	GND
	⑯	0		⑤	1.1
	⑰	4.8		⑥	GND
	⑱	GND		⑦	GND
	㉑	4.6		⑧	4.8
	㉒	4.9		⑨	4.9
	㉓	2.2		⑩	3.1
	㉔	3.9	IC5102	①	GND
	㉕	2.2		②	4.4
	㉖	2.4		③	2.6
	㉗	GND		④	GND
	㉘	4.9		⑤	2.2
	㉙	4.9		⑥	5.0
	㉚	4.9		⑦	GND
	㉛	4.9		⑧	GND
	㉜	4.9		⑨	4.9
	㉝	4.9		⑩	4.9

•All voltage are in V.
•Pin numbers which are not described are not used.

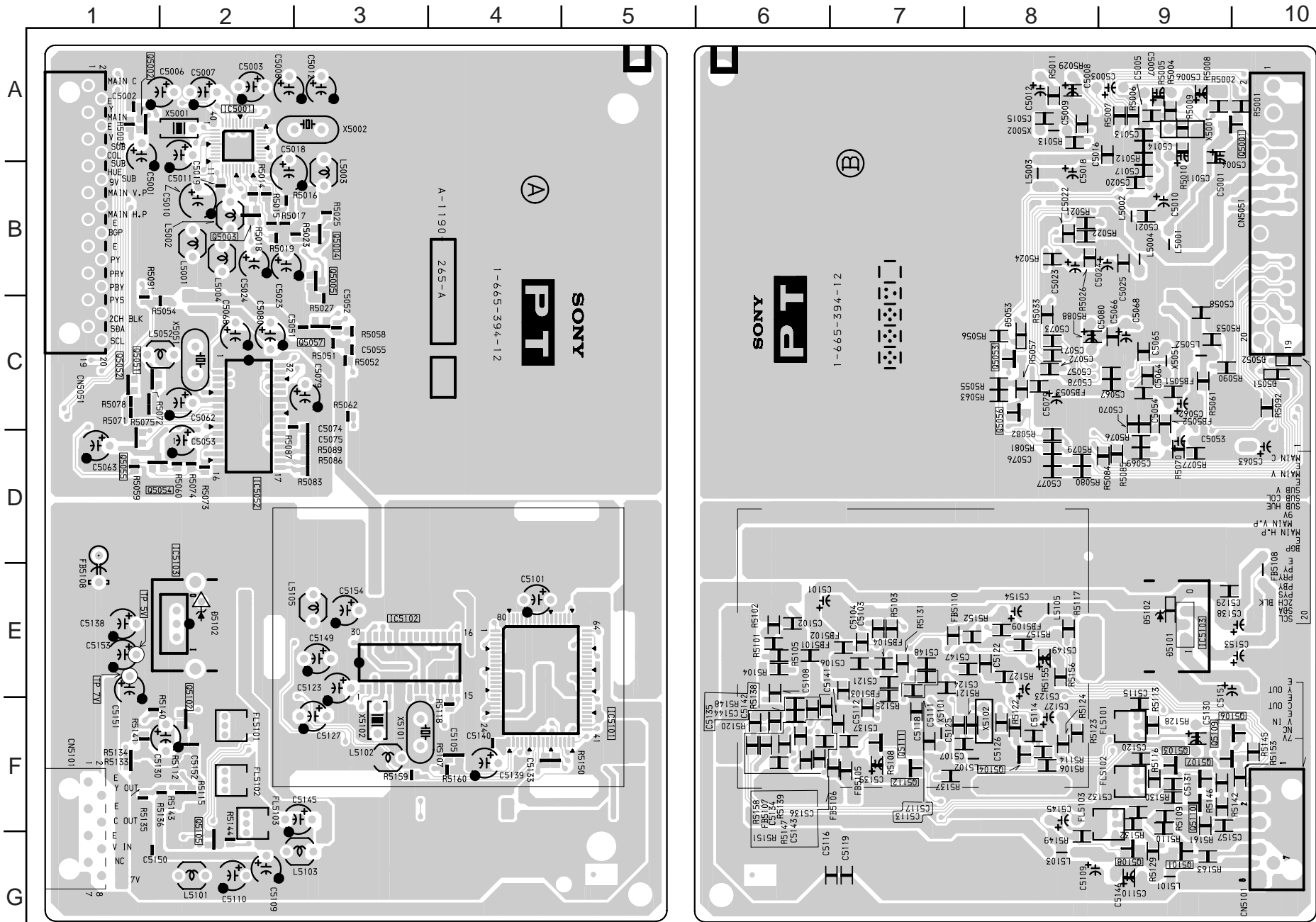
PT BOARD TRANSISTOR VOLTAGE LIST

REF.	VOL.	REF.	VOL.
Q5001	B 6.5	Q5101	B 2.5
	E 5.8		E 1.9
Q5002	B 5.8	Q5102	B 0.9
	E 6.5		E 1.8
Q5003	C GND	Q5103	C GND
	E 2.2		E 1.5
Q5004	B 2.9	Q5104	B 0.8
	E 2.2		E 1.5
Q5005	B 4.1	Q5105	B 1.9
	C 3.5		E 2.6
Q5051	B 0.4	Q5106	B 2.4
	E 1.0		E 1.7
Q5052	C GND	Q5107	C 4.4
	E 0.5		B 2.4
Q5053	C *	Q5108	C 1.7
	E *		E 5.0
Q5054	B 0	Q5109	B 4.4
	E 0		C 2.0
Q5055	B 0.5	Q5110	B 5.0
	C GND		E 4.4
Q5056	B *	Q5111	B 1.5
	C *		C GND
Q5057	B 0	Q5112	B 2.1
	C 4.9		E 1.5

All voltages are in V.

PT (PIP PROCESSOR, D COMB. FILTER,
SUB DECODER, 4FSC GENERATOR)
(KP-41T65K/41T65T/53S65T ONLY)

– PT Board –



< Component Side >

< Conductor Side >

PT BOARD

DIODE	*
D5053 C-8	⑧
D5101 E-9	⑨
TRANSISTOR	*
Q5001 A-10	⑩
Q5002 A-1	①
Q5003 B-2	②
Q5004 B-3	③
Q5005 B-3	④
Q5051 C-1	⑤
Q5052 C-1	⑥
Q5053 C-8	⑦
Q5054 D-1	⑧
Q5055 D-1	⑨
Q5056 C-8	⑩
Q5057 C-3	⑪
Q5101 G-9	⑫
Q5102 F-2	⑬
Q5103 F-9	⑭
Q5104 F-8	⑮
Q5105 G-2	⑯
Q5106 F-10	⑰
Q5107 F-10	⑱
Q5108 G-9	⑲
Q5109 F-9	⑳
Q5110 F-9	㉑
Q5111 H-7	㉒
Q5112 H-7	㉓
IC	
IC5001 A-2	
IC5052 C-2	
IC5101 E-4	
IC5102 E-3	
IC5103 E-2, E-9	

NOTE:

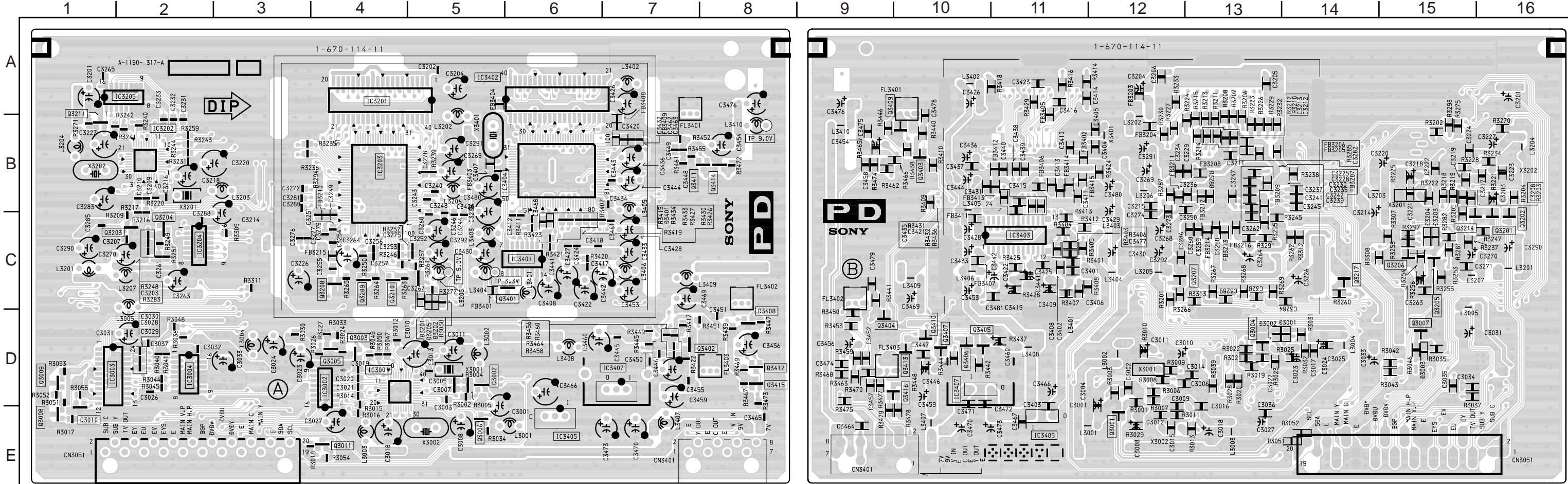
- Pattern from the side which enables seeing.
- Pattern of the rear side.

NOTE:
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

PD BOARD

DIODE		*			
D3003	D-15	⑨	Q3401	C-6	②
D3051	E-14	⑨	Q3402	D-7	②
D3052	E-14	⑨	Q3403	B-10	①
D3201	C-5	⑨	Q3404	D-9	①
D3202	C-5	⑨	Q3405	D-10	①
D3205	C-5	⑨	Q3406	D-10	①
D3401	C-6	⑨	Q3407	D-10	①
			Q3408	D-8	②
			Q3409	B-10	①
			Q3410	D-10	①
			Q3411	B-8	②
			Q3412	D-8	②
			Q3413	D-10	①
			Q3414	B-8	②
			Q3415	D-8	②
			Q3416	D-10	①
TRANSISTOR		*			
Q3001	E-12	①			
Q3002	D-5	②			
Q3003	D-4	②			
Q3004	D-13	①			
Q3005	D-4	②			
Q3006	E-5	②			
Q3007	D-15	①			
Q3008	E-1	②			
Q3009	D-1	②			
Q3010	D-1	②			
Q3201	B-16	①			
Q3202	B-16	①			
Q3203	C-2	②			
Q3204	C-2	②			
Q3205	C-15	①			
Q3206	C-15	①			
Q3207	C-12	①			
Q3208	C-4	②			
Q3209	C-4	②			
Q3210	C-4	②			
Q3211	B-1	②			
Q3214	B-16	①			
Q3217	C-14	①			
			IC		
			IC3001	D-4	
			IC3002	D-4	
			IC3003	D-1	
			IC3004	D-2	
			IC3201	A-4	
			IC3202	B-2	
			IC3203	B-4	
			IC3204	C-2	
			IC3205	A-2	
			IC3402	A-6	
			IC3403	C-11	
			IC3404	B-6	
			IC3405	E-6,E-11	
			IC3407	D-7,D-10	

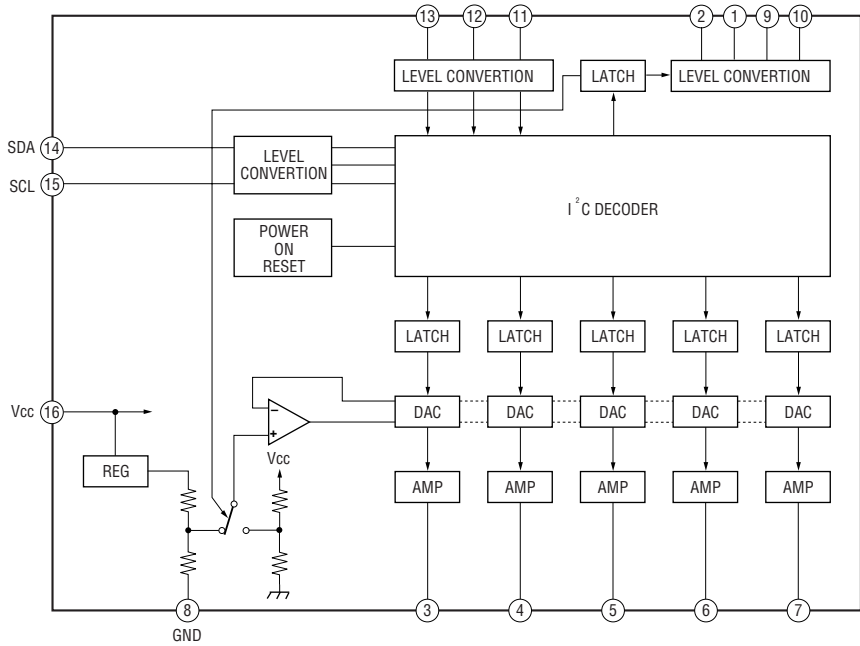
- PT Board -



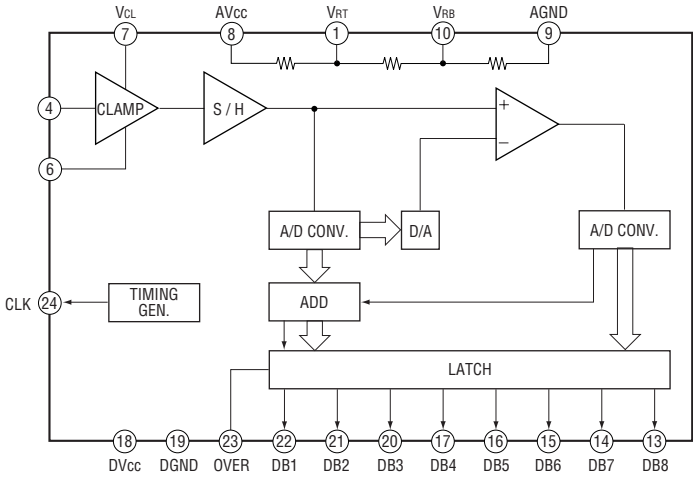
< Component Side >

< Conductor Side >

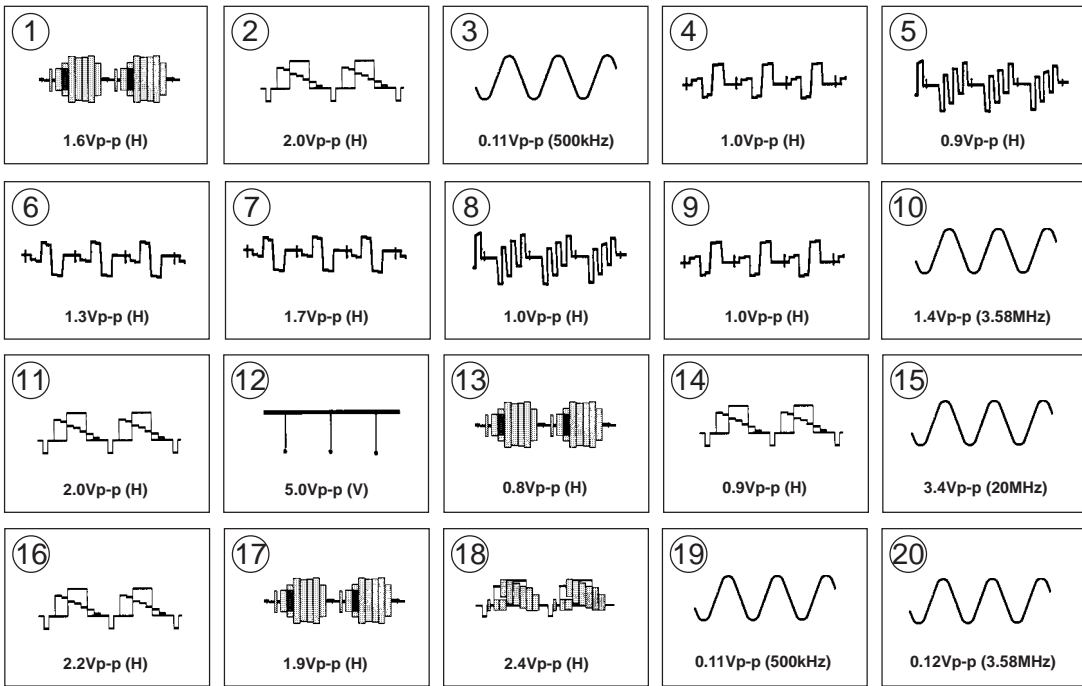
PD BOARD : IC3004 CXA1315M

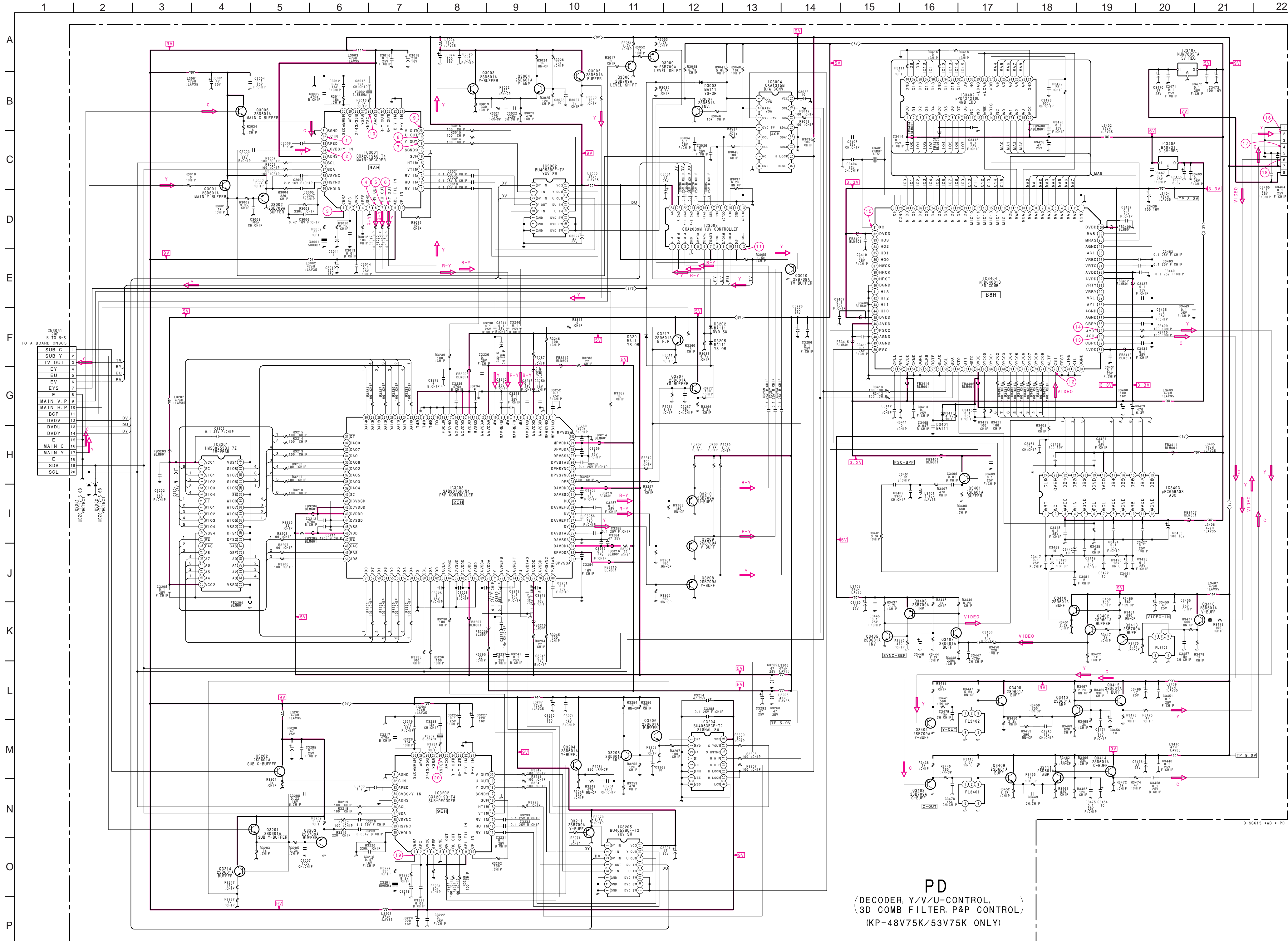


PD BOARD : IC3403 μPC659AGS

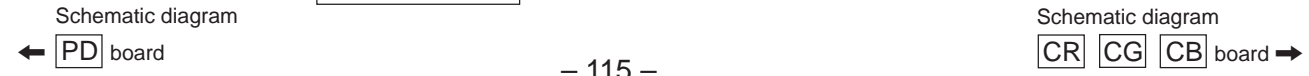


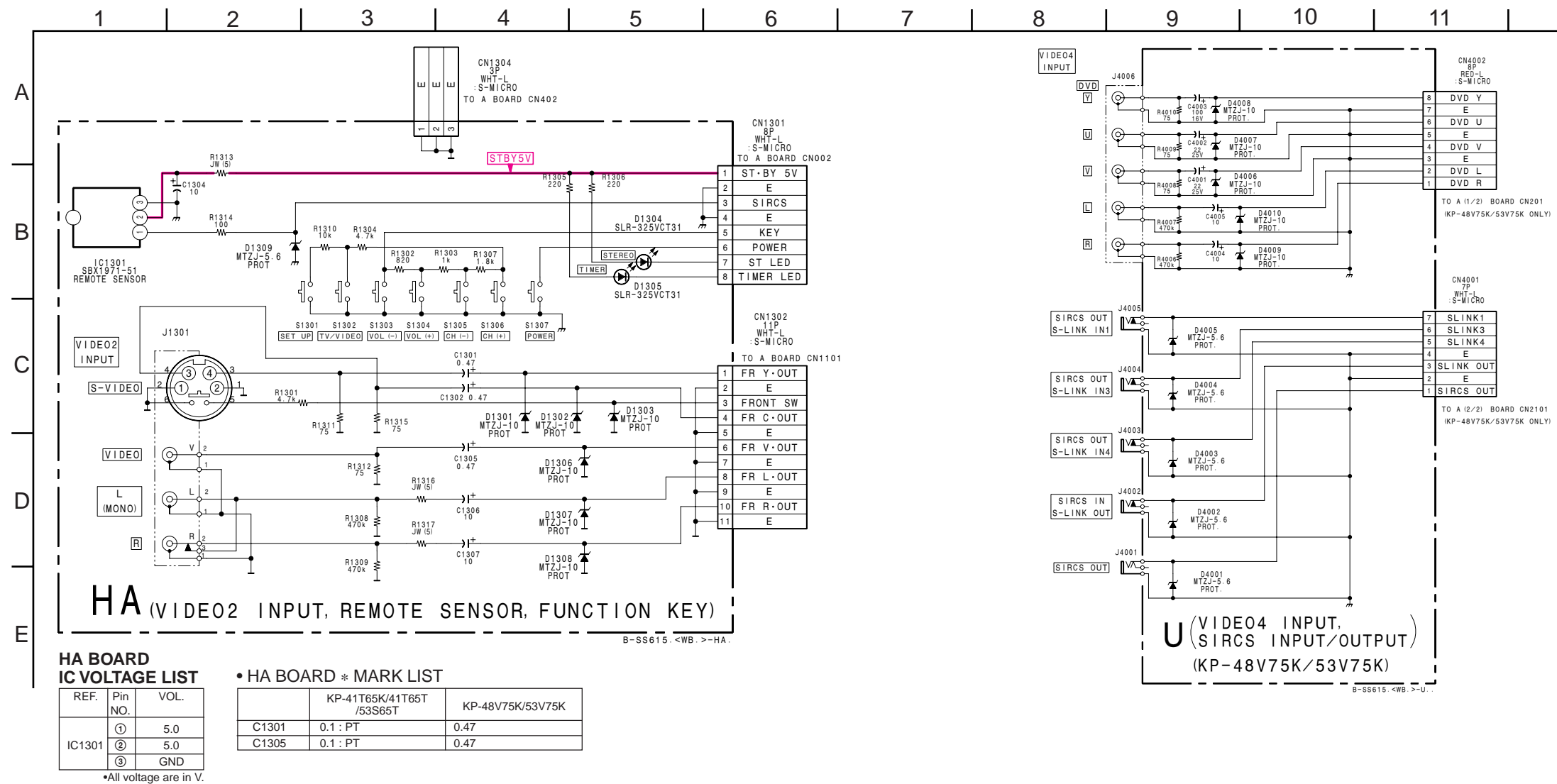
• PD BOARD WAVEFORMS





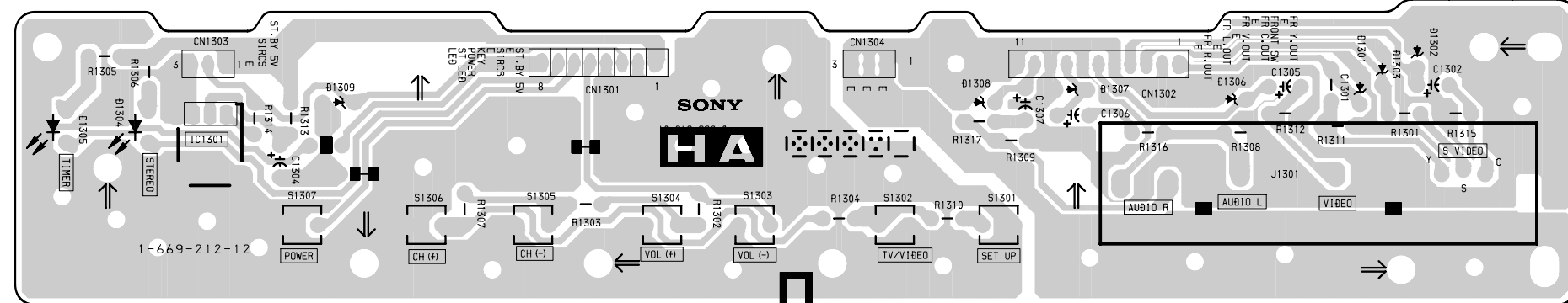
PD BOARD IC VOLTAGE LIST														
REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.	REF.	Pin NO.	VOL.
IC3001	①	2.3	IC3004	①	0.2	IC3202	①	GND	IC3402	①	4.5	IC3407	①	1.7
	②	4.1		②	0		②	GND		②	4.6		②	1.2
	③	8.9		③	0.4		③	8.8		③	4.9		③	1.3
	④	1.8		④	0.4		④	2.4		④	GND		④	5.0
	⑤	GND		⑤	4.4		⑤	4.6		⑤	0.2		⑤	1.3
	⑥	2.9		⑥	4.5		⑥	GND		⑥	4.8		⑥	1.1
	⑦	2.8		⑦	GND		⑦	3.6		⑦	4.9		⑦	1.6
	⑧	3.3		⑧	2.9		⑧	4.0		⑧	4.9		⑧	0.7
	⑨	8.9		⑨	8.9		⑨	4.4		⑨	GND		⑨	1.0
	⑩	0.8		⑩	GND		⑩	GND		⑩	GND		⑩	0.6
IC3001	⑪	4.4	⑪	GND	⑪	4.7	⑪	4.3	⑪	1.4	⑪	GND		
	⑫	4.3	⑫	GND	⑫	4.5	⑫	0.4	⑫	0.9	⑫	2.5		
	⑬	4.3	⑬	4.6	⑬	3.4	⑬	0.4	⑬	1.5	⑬	2.3		
	⑭	0.2	⑭	4.7	⑭	2.5	⑭	1.1	⑭	1.5	⑭	3.3		
	⑮	0.8	⑮	8.9	⑮	0.7	⑮	1.8	⑮	5.0	⑮	GND		
	⑯	GND	⑯	4.9	⑯	1.6	⑯	1.1	⑯	0	⑯	GND		
	⑰	3.4	⑰	0	⑰	GND	⑰	2.1	⑰	1.7	⑰	GND		
	⑱	3.0	⑱	0.2	⑱	0.6	⑱	4.7	⑱	1.5	⑱	GND		
	⑲	3.0	⑲	0.2	⑲	0.7	⑲	1.5	⑲	1.5	⑲	GND		
	⑳	GND	㉑	0.2	㉑	2.2	㉑	0.6	㉑	1.5	㉑	3.3		
IC3001	㉒	GND	㉒	0.2	㉒	1.1	㉒	1.6	㉒	1.6	㉒	3.3		
	㉓	8.9	㉓	0.9	㉓	1.8	㉓	GND	㉓	2.4	㉓	1.9		
	㉔	2.4	㉔	0.12	㉔	1.1	㉔	4.9	㉔	1.0	㉔	GND		
	㉕	5.5	㉕	0.4	㉕	0.4	㉕	4.4	㉕	1.0	㉕	GND		
	㉖	GND	㉖	0.3	㉖	0.8	㉖	GND	㉖	1.3	㉖	0		
	㉗	3.6	㉗	0.4	㉗	4.3	㉗	0.9	㉗	1.1	㉗	0		
	㉘	4.0	㉘	GND	㉘	4.9	㉘	0.4	㉘	1.1	㉘	3.3		
	㉙	4.6	㉙	3.7	㉙	4.9	㉙	2.0	㉙	1.5	㉙	GND		
	㉚	8.8	㉚	2.0	㉚	0.3	㉚	1.1	㉚	0	㉚	GND		
	㉛	4.7	㉛	0.7	㉛	4.8	㉛	0.4	㉛	1.3	㉛	2.9		
IC3001	㉜	4.6	㉜	0.8	㉜	GND	㉜	1.0	㉜	1.3	㉜	GND		
	㉝	3.9	㉝	0.8	㉝	0.2	㉝	GND	㉝	1.7	㉝	4.7		
	㉞	3.2	㉞	0.7	㉞	GND	㉞	4.9	㉞	1.7	㉞	2.9		
	㉟	2.7	㉟	0.7	㉟	GND	㉟	0	㉟	0	㉟	0.2		
	㊱	0	㊱	4.9	㊱	GND	㊱	0.1	㊱	3.3	㊱	3.3		
	㊲	0	㊲	0	㊲	GND	㊲	0.6	㊲	0.8	㊲	0.8		
	㊳	0	㊳	0.7	㊳	4.9	㊳	1.6	㊳	2.7	㊳	0.8		
	㊴	3.0	㊴	0.7	㊴	0.2	㊴	GND	㊴	GND	㊴	1.9		
	㊵	0	㊵	0.7	㊵	0.2	㊵	4.9	㊵	0.2	㊵	2.1		
	㊶	GND	㊶	0.7	㊶	0.2	㊶	4.9	㊶	2.6	㊶	1.8		
IC3002	㊷	GND	㊷	2.6	㊷	0.2	㊷	GND	㊷	5.0	㊷	1.6		
	㊸	GND	㊸	GND	㊸	0.3	㊸	1.3	㊸	1.3	㊸	1.7		
	㊹	0.4	㊹	GND	㊹	0.2	㊹	3.0	㊹	2.4	㊹	1.2		
	㊺	0.4	㊺	GND	㊺	0.2	㊺	GND	㊺	5.0	㊺	3.0		
	㊻	0.4	㊻	0.4	㊻	0.3	㊻	GND	㊻	GND	㊻	1.5		
	㊼	3.0	㊼	0.4	㊼	4.9	㊼	GND	㊼	1.9	㊼	1.5		
	㊽	3.9	㊽	0.4	㊽	1.2	㊽	GND	㊽	2.1	㊽	4.5		
	㊾	3.0	㊾	0.4	㊾	0.4	㊾	GND	㊾	1.8	㊾	4.5		
	㊿	3.5	Ⓚ	GND	Ⓚ	0.8	Ⓚ	GND	Ⓚ	1.6	Ⓚ	GND		
	①	8.9	①	0.3	①	0.4	①	8.9	①	1.7	①	GND		
IC3002	②	5.8	②	0.3	②	0.3	②	8.9	②	5.0	②	GND		
	③	5.8	③	0.3	③	0.4	③	0.8	③	GND	③	3.3		
	④	5.8	④	0.3	④	0.4	④	0.6	④	1.2	④	1.7		
	⑤	GND	⑤	GND	⑤	0.4	⑤	0.6	⑤	3.0	⑤	1.8		
	⑥	1.7	⑥	2.3	⑥	0	⑥	1.3	⑥	1.5	⑥	1.7		
	⑦	2.3	⑦	4.1	⑦	GND	⑦	8.9	⑦	1.5	⑦	17		
	⑧	8.9	⑧	1.8	⑧	4.9	⑧	3.7	⑧	GND	⑧	GND		
	⑨	3.7	⑨	GND	⑨	4.8	⑨	3.0	⑨	1.5	⑨	GND		
	⑩	3.9	⑩	GND	⑩	GND	⑩	3.9	⑩	1.6	⑩	1.8		
	⑪	3.7	⑪	3.0	⑪	GND	⑪	3.0	⑪	1.5	⑪	1.8		
IC3003	⑫	8.9	⑫	2.9	⑫	4.9	⑫	3.0	⑫	1.5	⑫	3.3		
	⑬	3.4	⑬	3.3	⑬	3.7	⑬	GND	⑬	1.5	⑬	3.3		
	⑭	0.1	⑭	8.9	⑭	2.6	⑭	GND	⑭	1.5	⑭	1.9		
	⑮	GND	⑮	0.8	⑮	2.0	⑮	GND	⑮	1.5	⑮	0.7		
	⑯	2.4	⑯	4.4	⑯	0.7	⑯	0.4	⑯	1.4	⑯	GND		
	⑰	4.4	⑰	4.3	⑰	0.7	⑰	0.4	⑰	1.0	⑰	0.6		
	⑱	4.5	⑱	4.4	⑱	0.8	⑱	0.4	⑱	1.0	⑱	1.7		
	⑲	0.1	⑲	0.2	⑲	0.7	⑲	3.0	⑲	1.8	⑲	3.3		
	⑳	6.2	㉑	0.8	㉑	0.8	㉑	3.9	㉑	1.3	㉑	5.1		
	㉒	GND	㉒	0.7	㉒	2.9	㉒	3.0	㉒	1.1	㉒	GND		
IC3003	㉓	5.8	㉓	GND	㉓	0.7	㉓	3.0	㉓	1.1	㉓	3.3		
	㉔	5.8	㉔	3.4	㉔	0.7	㉔	8.9	㉔	1.5	㉔	7.5		
	㉕	5.8	㉕	3.0	㉕	0.7	㉕	5.1	㉕	1.3	㉕	GND		
	㉖	8.9	㉖	2.9	㉖	GND	㉖	1.9	㉖	1.3	㉖	5.1		





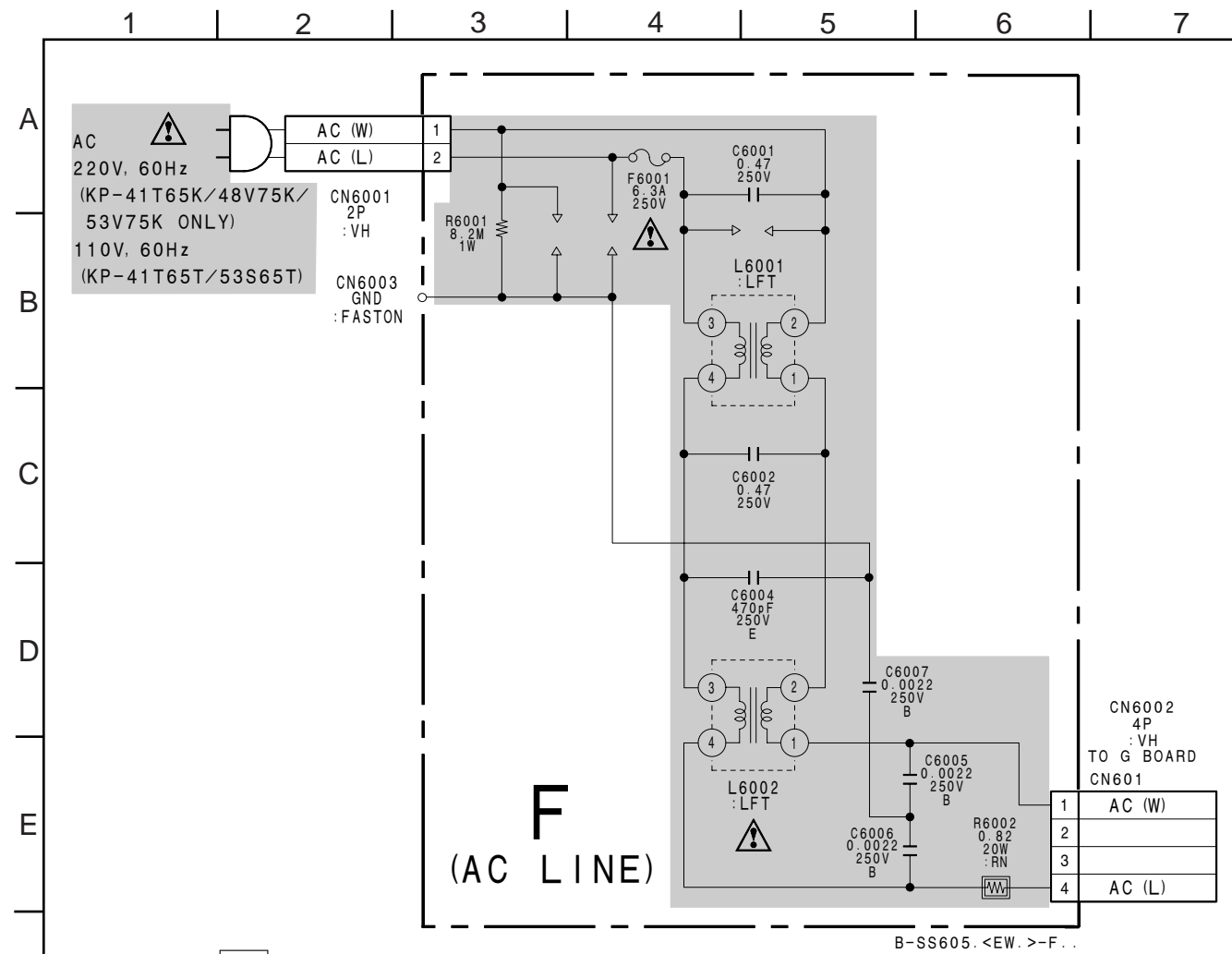
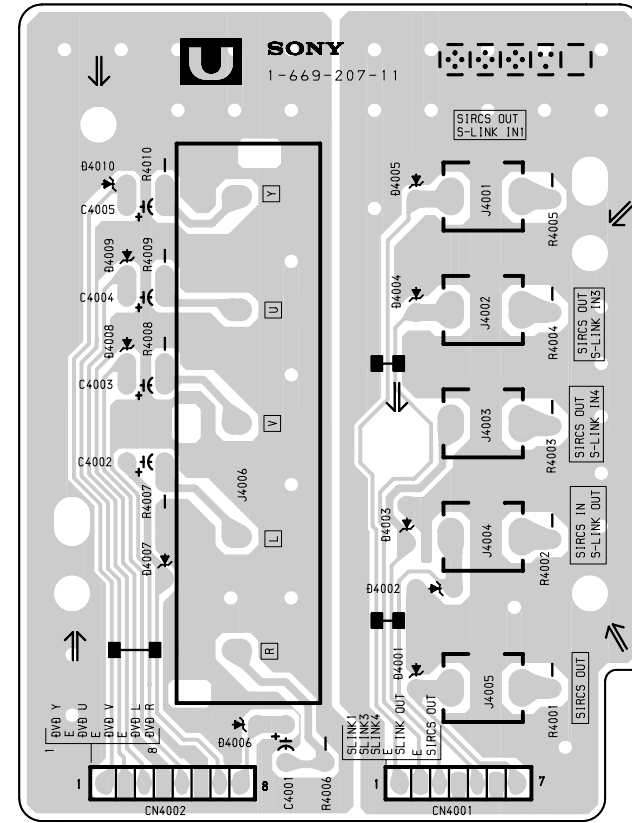
HA [VIDEO INPUT, SIRCS, FUNCTION KEY]

– HA Board –



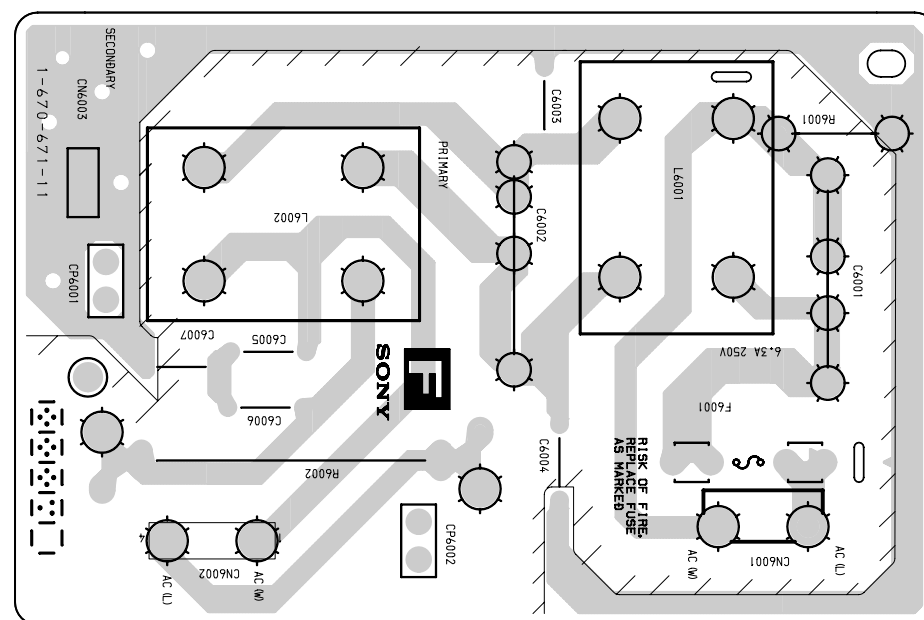
U [VIDEO 4 INPUT, SIRCS INPUT/OUTPUT]

– U Board –



F [AC LINE]

– F Board –



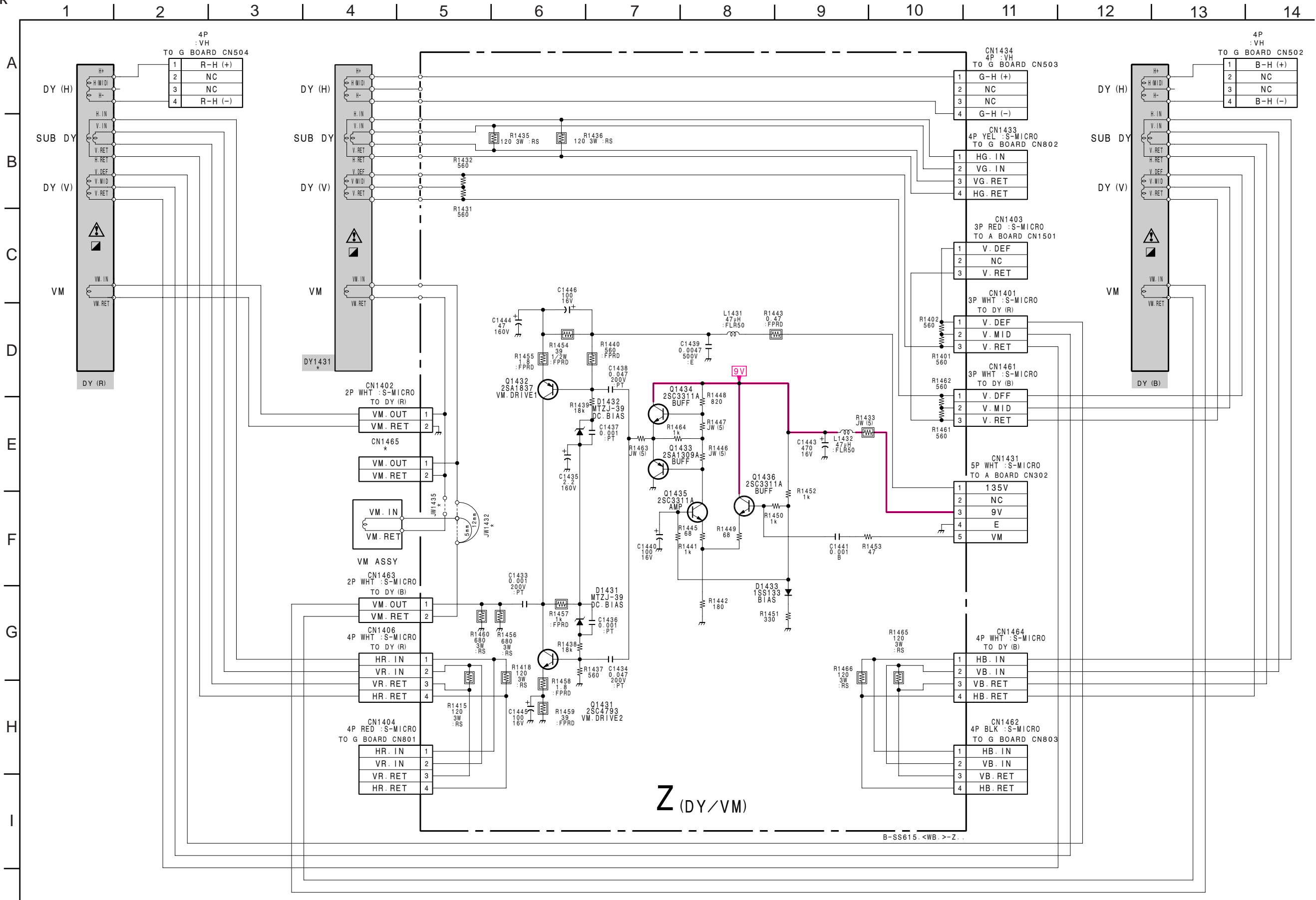
Schematic diagram
← **HA** **U** **F** board

Schematic diagram
Z board →

Z BOARD TRANSISTOR
VOLTAGE LIST

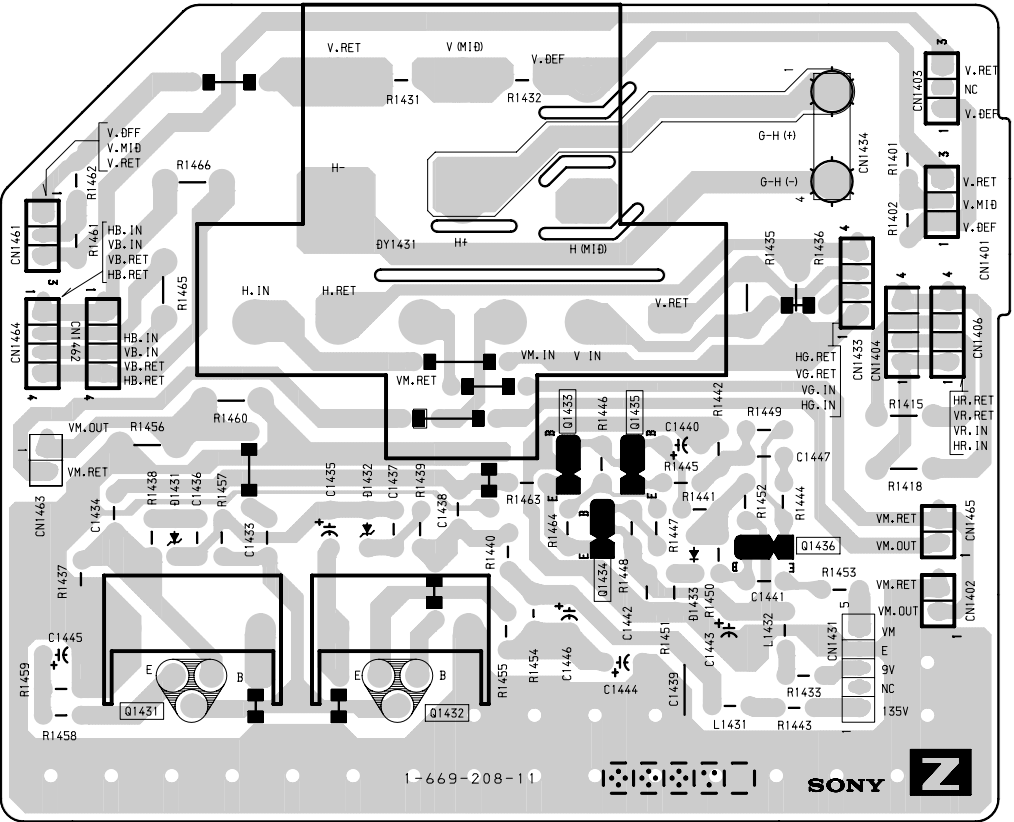
REF.		VOL.
Q1431	B	0.9
	E	0.5
	C	67.2
Q1432	B	134.4
	E	138.4
	C	67.2
Q1433	B	5.7
	E	5.8
	C	GND
Q1434	B	5.7
	E	5.8
	C	9.0
Q1435	B	2.7
	E	2.1
	C	5.7
Q1436	B	2.7
	E	2.1
	C	9.0

All voltages are in V.



Z [VM, DY]

– Z Board –

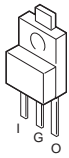


• Z BOARD * MARK LIST

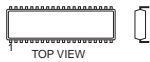
	KP-53S65T	KP-41T65K/41T65T /48V75K	KP-53V75K
CN1465	–	–	2P WHT : S-MICRO
DY1431	1-451-455-31 SANYO	1-451-454-31 TOTOKU	1-451-454-11 TOTOKU
JW1432	5MM	5MM	12.5MM
JW1435	10MM	10MM	–

6-5. SEMICONDUCTORS

BA033T

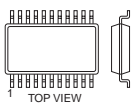


BH3856FS-E2



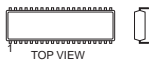
32pin

BU4053BCF-T2
CXA1315M
NJM2145M-TE2



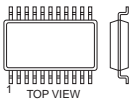
16pin

CA0007AM
CA0007AD
NJM2058D
UPC339C



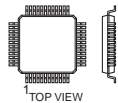
14pin

CXA1686M
NJM2178M-T2



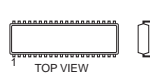
30pin

CXA2019Q



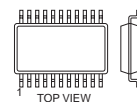
40pin

CXA2025AS



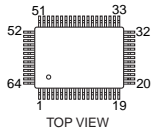
48pin

CXA2039M-T6
μPC659AGS-E2



24pin

CXA2079Q

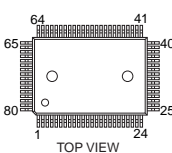


CXP85112B-613S
CXA85856-009S
CXP85856A-010S

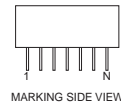


64pin

CXD2043Q

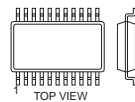


DM-58



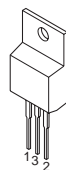
5pin

HM538253BJ-7Z
μPD424210LE-60-A-E2



40pin

MC7905CT

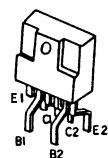


MM1313AD
PM0011AS



42pin

MX0841AB-F

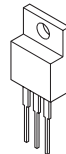


M5218AP
X24C04S8



8pin

NJM78M05FA
PQ09RF21
TA7805S
TA7812S

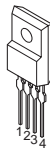


PA0053B

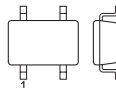


18pin

PQ09RD11

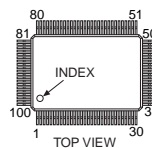


PST9143NL

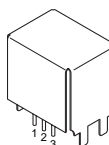


5pin

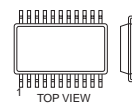
SAB9076H/N4
μPD6408/BGF-3BA



SBX1780-51(10)

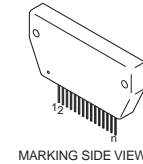


SDA9288X-B121



32pin

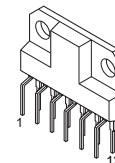
STK392-150



STV9379



TA8200AH

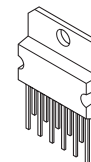


TDA6106Q

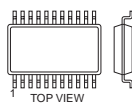


9pin

TDA7262

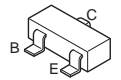


UPC4558G2

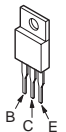


8pin

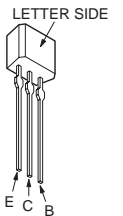
DTA144EKA-T146
DTC143TKA-T146
DTC144EKA
2SA1162-G
2SD601A-Q



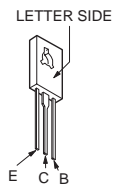
IRF614
2SA1837
2SC4793
2SD2012



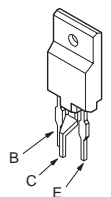
2SA1175-HFE
2SC2785-HFE



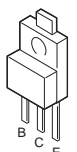
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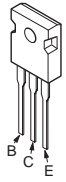
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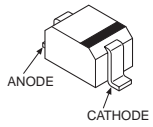
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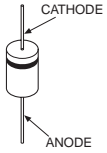
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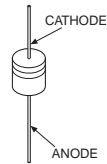
MA111
UDZ-S-TE-17-5.6
UDZ-TE-17-36B



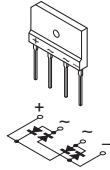
D1NL20
EL1Z
GP08D
RGP02-20EL-6394



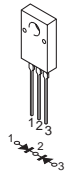
D1NS4
HZS9.1NB2
MTZJ-T-77-13A
MTZJ-T-77-15
MTZJ-T-77-36B
MTZJ-30A
MTZJ-33B
MTZJ-7.5B
RD10ESB2
RD11ES-B2
RD24ES-B1
RD3.6ES-B1
RD39ES-B2
RD5.1ESB2
RD5.6ES-B1
RD5.6ESB2
11ES2



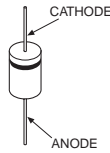
D10SBS4F
D4SBS4-F
LN4SB60
RBA-402LLF-A



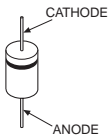
D10SC4M



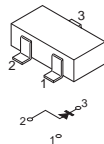
D2S4MF



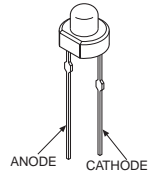
ERC06-15S
ERD29-08J



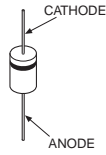
RD43M-B



SLR-325VCT31



1SS133T-77



SECTION 7

EXPLODED VIEWS

NOTE:

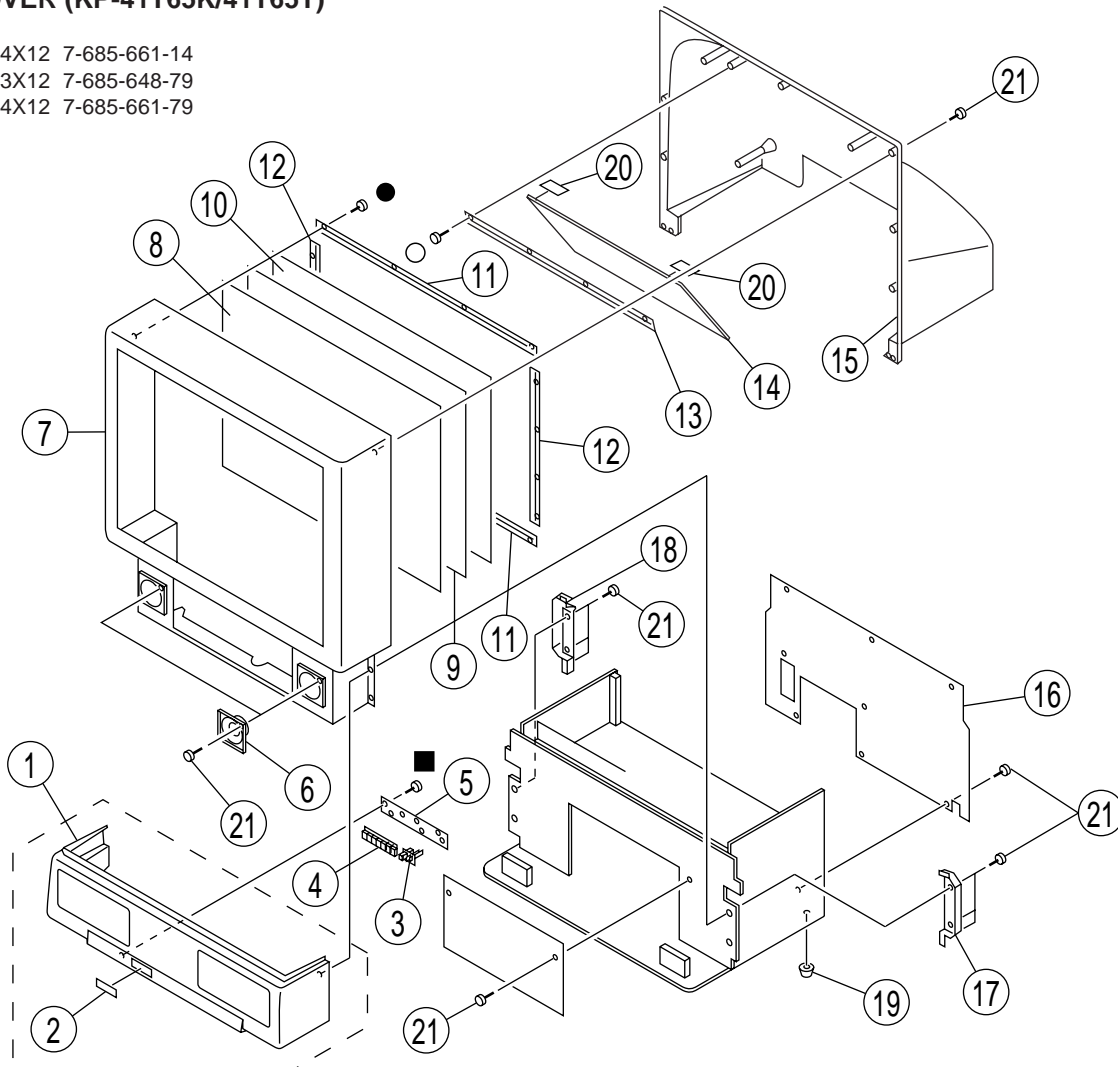
- Items with no part number and no description are not stocked because they are seldom required for routine service.

- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
 Replace only with part number specified.

7-1. COVER (KP-41T65K/41T65T)

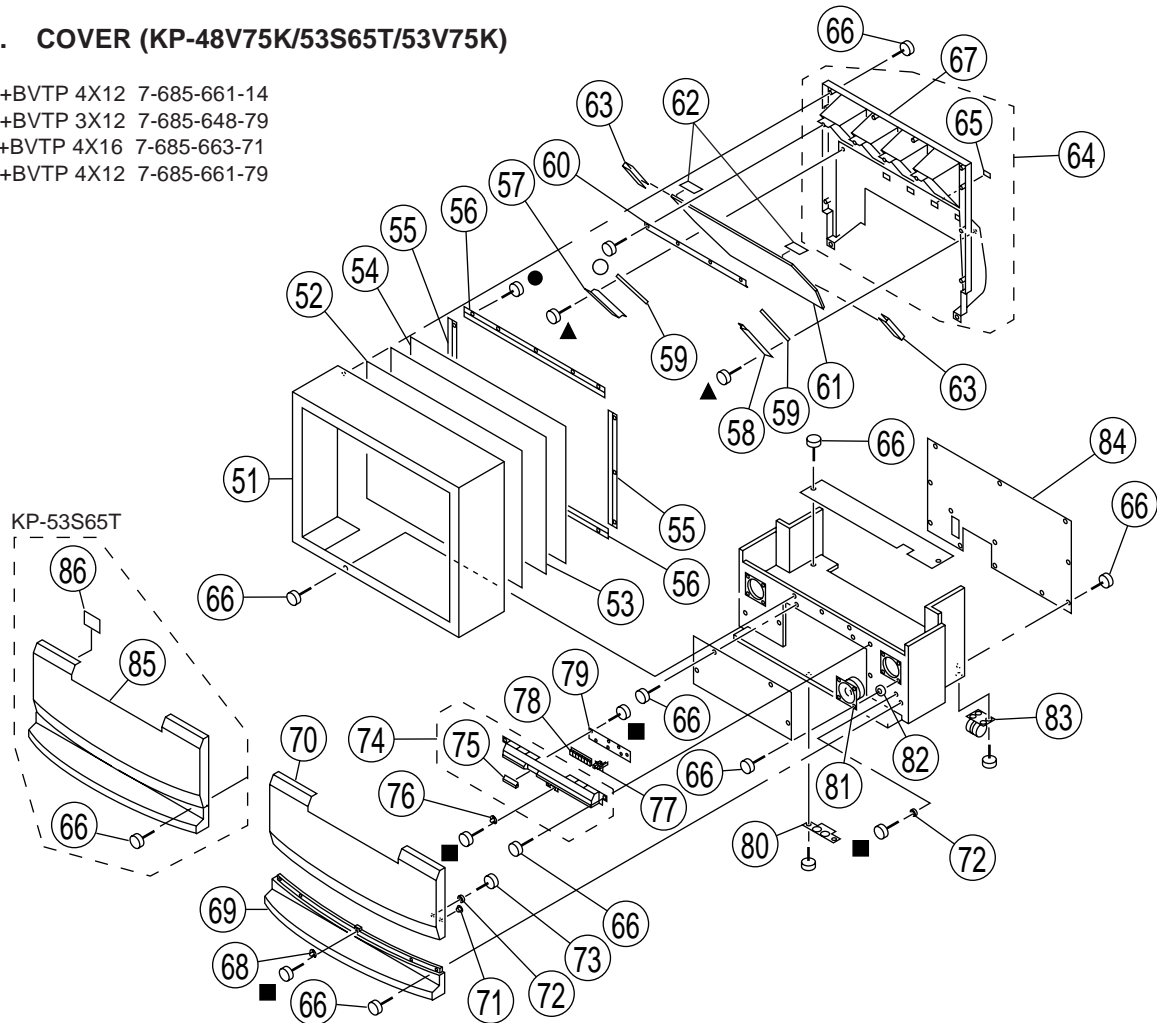
- : +BVTP 4X12 7-685-661-14
- : +BVTP 3X12 7-685-648-79
- : +BVTP 4X12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4034-531-1	CONTROL PANEL ASSY (PTG) (41)		12	* 4-059-011-01	HOLDER, SCREEN	
2	4-057-605-21	DOOR, CONTROL PANEL		13	* 4-037-351-01	HOLDER, MIRROR	
3	4-057-604-01	GUIDE, LED/IR		14	4-047-861-01	MIRROR (41), REFLECTION	
4	4-057-603-01	BUTTON, MULTI		15	X-4032-607-1	COVER, MIRROR	
5	* A-1372-474-A	HA BOARD, COMPLETE (VAR)		16	* 4-059-014-01	BOARD (41), REAR	
6	1-505-748-11	SPEAKER (10CM)		17	4-057-601-01	CAP (RIGHT) (41), CONTROL PANEL	
7	X-4035-742-1	BEZNET ASSY (41)		18	4-057-600-01	CAP (LEFT) (41), CONTROL PANEL	
8	4-064-340-11	SCREEN (41), CONTRAST		19	4-057-611-01	FOOT	
9	4-064-338-11	PLATE (L), DUFFUSION		20	7-600-003-52	BLACK ACETATE (2142) 46x50M	
10	4-064-339-11	PLATE (F), DUFFUSION		21	4-378-522-31	SCREW (4x20), TAPPING	
11	* 4-059-007-01	HOLDER, SCREEN					

7-2. COVER (KP-48V75K/53S65T/53V75K)

- : +BVTP 4X12 7-685-661-14
- : +BVTP 3X12 7-685-648-79
- ▲ : +BVTP 4X16 7-685-663-71
- : +BVTP 4X12 7-685-661-79



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4034-438-1	BEZNET ASSY (48) (KP-48V75K)		68	4-843-806-00	STRIKE (KP-48V75K/53V75K)	
	X-4035-743-1	BEZNET ASSY (53V) (KP-53S65T/53V75K)		69	4-057-608-01	SKIRT, FRONT (KP-48V75K/53V75K)	
52	4-058-894-11	SCREEN (53), CONTRAST		70	X-4034-457-1	GRILLE ASSY, SPEAKER	
		(KP-53S65T/53V75K)				(KP-48V75K/53V75K)	
	4-064-651-01	SCREEN (48), CONTRAST (KP-48V75K)					
53	4-063-555-11	PLATE (L), DUFFUSION (KP-53S65T)		71	4-838-438-00	LATCH (KP-48V75K/53V75K)	
	4-064-341-11	PLATE (L), DUFFUSION (KP-48V75K)		72	4-058-745-02	VELCRO (KP-48V75K/53V75K)	
	4-064-343-11	PLATE (L), DUFFUSION (KP-53V75K)		73	4-061-050-11	SCREW, PAN HEAD TAPPING (3x6)	
54	4-058-455-11	PLATE (F), DIFFUSION (KP-48V75K)		74	X-4034-499-1	PANEL ASSY, CONTROL	75
	4-059-221-11	PLATE (F), DIFFUSION				(KP-48V75K/53V75K)	
		(KP-53S65T/53V75K)					
55	* 4-058-892-01	HOLDER (S), SCREEN		75	4-057-605-21	DOOR, CONTROL PANEL	
56	* 4-058-893-01	HOLDER (L), SCREEN				(KP-48V75K/53V75K)	
57	* 4-051-790-02	HOLDER, MIRSD (L)		76	4-843-806-00	STRIKE (KP-48V75K/53V75K)	
58	* 4-051-789-02	HOLDER, MIRSD (R)		77	4-057-604-01	GUIDE, LED / IR (KP-53V75K)	
59	* 4-049-098-01	CUSHION		78	4-057-603-01	BUTTON, MULTI (KP-48V75K/53V75K)	
60	* 4-037-351-01	HOLDER, MIRROR			4-057-603-11	BUTTON, MULTI (KP-53S65T)	
61	4-048-181-01	MIRROR (53), REFLECTION (KP-53S65T)		79	* A-1372-474-A	HA BOARD, COMPLETE (VAR)	(KP-53S65T)
	4-058-889-01	MIRROR (53), REFLECTION (KP-53V75K)			* A-1372-476-A	HA BOARD, COMPLETE (VAR)	(KP-48V75K/53V75K)
	4-058-930-01	MIRROR (48), REFLECTION (KP-48V75K)					
62	7-600-003-52	BLACK ACETATE (2142) 46x50MM		80	4-048-175-01	FOOT, PLASTIC	
63	4-033-775-41	PROTECTOR, MIRROR		81	1-505-378-11	SPEAKER (10CM) (KP-53S65T)	
		(KP-53S65T/53V75K)			1-505-426-11	SPEAKER (10.6CM) (KP-48V75K/53V75K)	
64	* X-4032-620-1	COVER ASSY, MIRROR	65	82	4-060-066-01	SPACER, SPEAKER (KP-48V75K/53V75K)	
		(KP-53S65T/53V75K)		83	4-040-755-01	CASTER (DIA. 30)	
65	4-048-150-01	CAP, HOLE (KP-53S65T/53V75K)		84	* 4-058-556-01	BOARD (48), REAR (KP-48V75K)	
					* 4-057-844-01	BOARD (53), REAR (KP-53S65T/53V75K)	
66	4-378-522-31	SCREW (4x20), TAPPING		85	X-4035-410-1	GRILLE ASSY, SPEAKER (KP-53S65T)	
67	* 4-057-610-01	COVER, MIRROR (KP-48V75K)		86	4-059-346-01	CUSHION, GRILLE (KP-53S65T)	

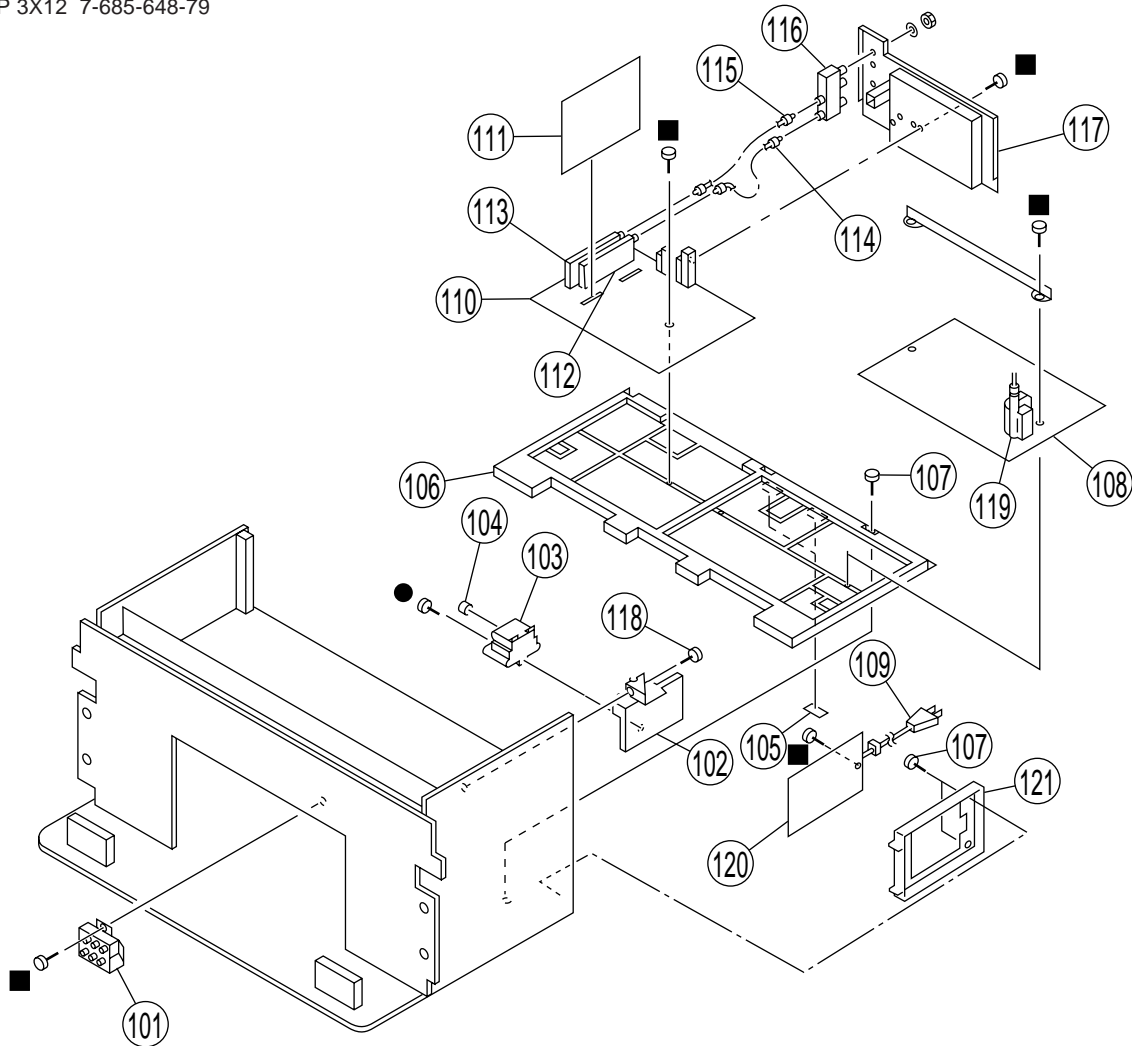
The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

7-3. COVER (KP-41T65K/41T65T)

- : +BVTP 4X12 7-685-661-14
- : +BVTP 3X12 7-685-648-79



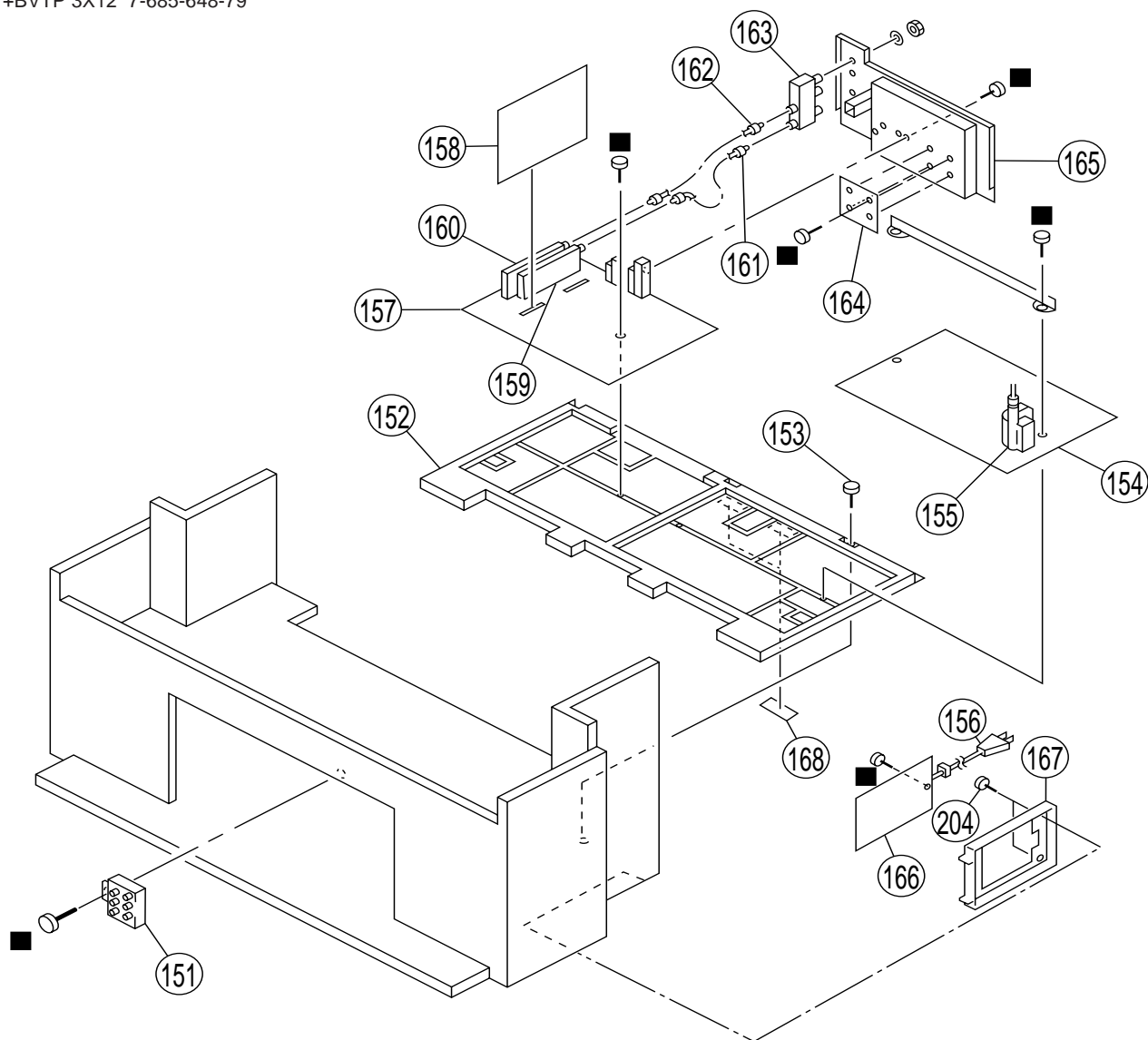
REF. NO.	PART NO.	DESCRIPTION	REMARK
101	\triangle 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	
102	* 4-057-596-01	BRACKET, HV	
103	\triangle 8-598-955-30	BLOCK ASSY, HIGH-VOLTAGE	
104	4-373-137-01	CAP (Z), RUBBER	
105	3-551-305-21	CUSHION, PANEL	
106	* 4-057-594-01	BRACKET, MAIN	
107	4-052-894-01	SCREW (4x20), HEAD TAPPING	
108	* A-1316-392-A	G BOARD, COMPLETE (KP-41T65K)	
	* A-1316-425-A	G BOARD, COMPLETE (KP-41T65T)	
109	\triangle 1-765-486-11	CORD, POWER (WITH CONNECTOR)	(KP-41T65T)
	\triangle 1-775-468-11	CORD, POWER (WITH CONNECTOR)	(KP-41T65K)
110	* A-1298-722-A	A BOARD, COMPLETE (KP-41T65K)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1298-724-A	A BOARD, COMPLETE (KP-41T65T)	
111	* A-1190-265-A	PT BOARD, COMPLETE	
112	8-598-339-00	TUNER, FSS BTF-LA402	
113	8-598-426-00	TUNER, FSS BTF-WL401 (KP-41T65K)	
	8-598-435-00	TUNER, FSS BTF-WG404 (KP-41T65T)	
114	* 1-557-056-31	CABLE, P-P	
115	1-556-945-21	CABLE, P-P	
116	8-598-414-00	ANTENNA SWITCH AS-2F	
117	4-057-595-21	TERMINAL BOARD	
118	4-378-522-31	SCREW (4x20), TAPPING	
119	\triangle 1-453-248-21	TRANSFORMER ASSY, FLYBACK	(NX-4007//X4T4)
120	* A-1241-326-A	F BOARD, COMPLETE	
121	* 4-060-974-01	BRACKET, F	

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-4. CHASSIS (KP-48V75K/53S65T/53V75K)

■ : +BVTP 3X12 7-685-648-79



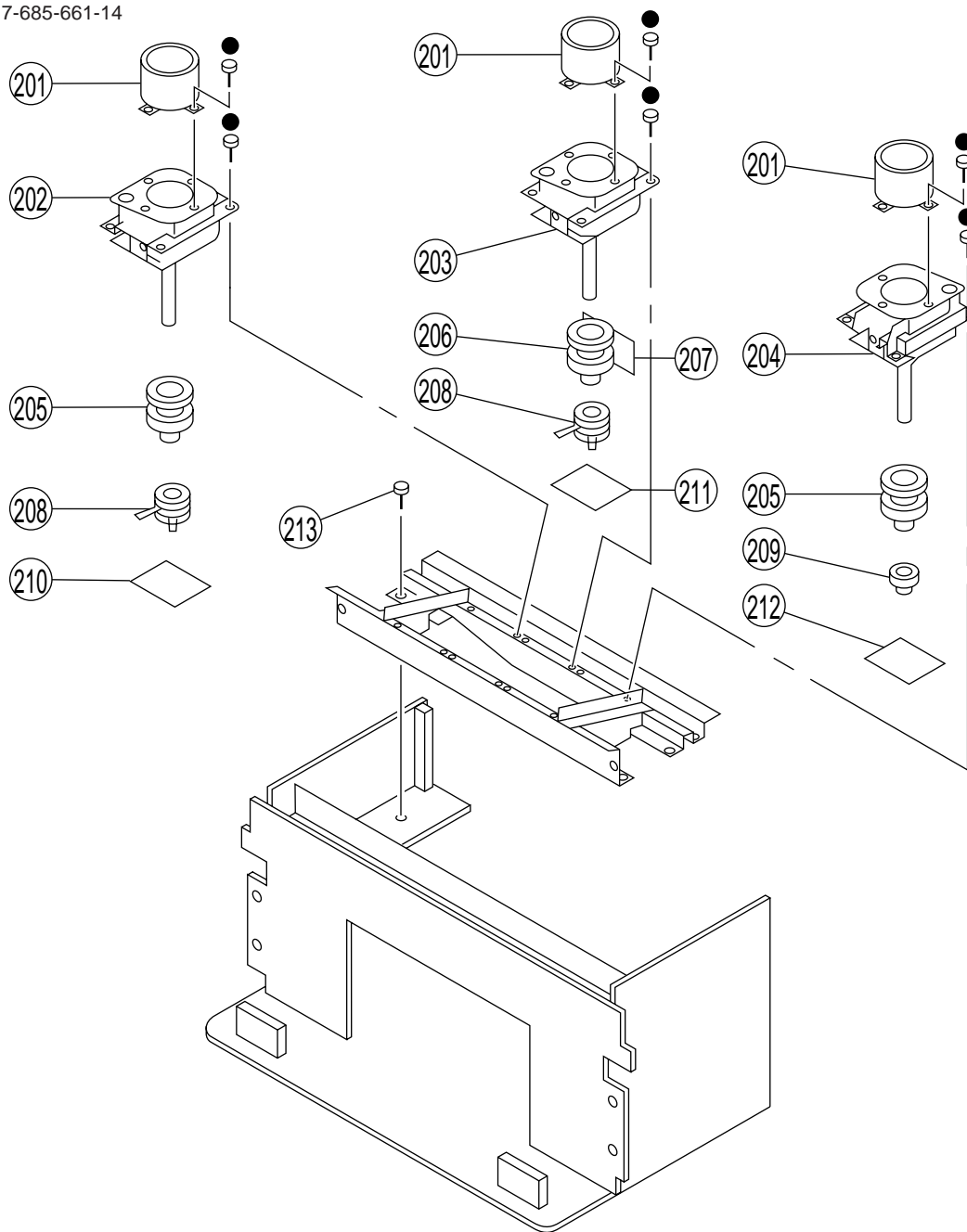
REF. NO.	PART NO.	DESCRIPTION	REMARK
151	\triangle 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	
152	* 4-057-594-01	BRACKET, MAIN	
153	4-052-894-01	SCREW (4x20), HEAD TAPPING	
154	* A-1316-419-A	G BOARD, COMPLETE (KP-53V75K)	
	* A-1316-424-A	G BOARD, COMPLETE (KP-48V75K)	
	* A-1316-426-A	G BOARD, COMPLETE (KP-53S65T)	
155	\triangle 1-453-238-11	TRANSFORMER ASSY, FLYBACK (NX-4007//X4A4) (KP-53S65T/53V75K)	
	\triangle 1-453-238-12	TRANSFORMER ASSY, FLYBACK (NX-4007//X4A4) (KP-48V75K)	
156	\triangle 1-765-486-11	CORD, POWER (WITH CONNECTOR) (KP-53S65T)	
	\triangle 1-775-468-11	CORD, POWER (WITH CONNECTOR) (KP-48V75K/53V75K)	
157	* A-1298-723-A	A BOARD, COMPLETE (KP-48V75K/53V75K)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1298-724-A	A BOARD, COMPLETE (KP-53S65T)	
158	* A-1190-317-A	PD BOARD, COMPLETE (KP-48V75K/53V75K)	
	* A-1190-265-A	PT BOARD, COMPLETE (KP-53S65T)	
159	8-598-339-00	TUNER, FSS BTF-LA402	
160	8-598-435-00	TUNER, FSS BTF-WG404 (KP-53S65T)	
	8-598-426-00	TUNER, FSS BTF-WL401 (KP-48V75K/53V75K)	
161	* 1-557-056-31	CABLE, P-P	
162	1-556-945-21	CABLE, P-P	
163	8-598-414-00	ANTENNA SWITCH AS-2F	
164	* A-1373-667-A	U BOARD, COMPLETE (KP-48V75K/53V75K)	
165	4-057-595-21	TERMINAL BOARD (KP-53S65T)	
	4-057-595-31	TERMINAL BOARD (KP-48V75K/53V75K)	
166	* A-1241-326-A	F BOARD, COMPLETE	
167	* 4-060-974-01	BRACKET, F	
168	3-551-305-21	CUSHION, PANEL	

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

7-5. PICTURE TUBE (KP-41T65K/41T65T)

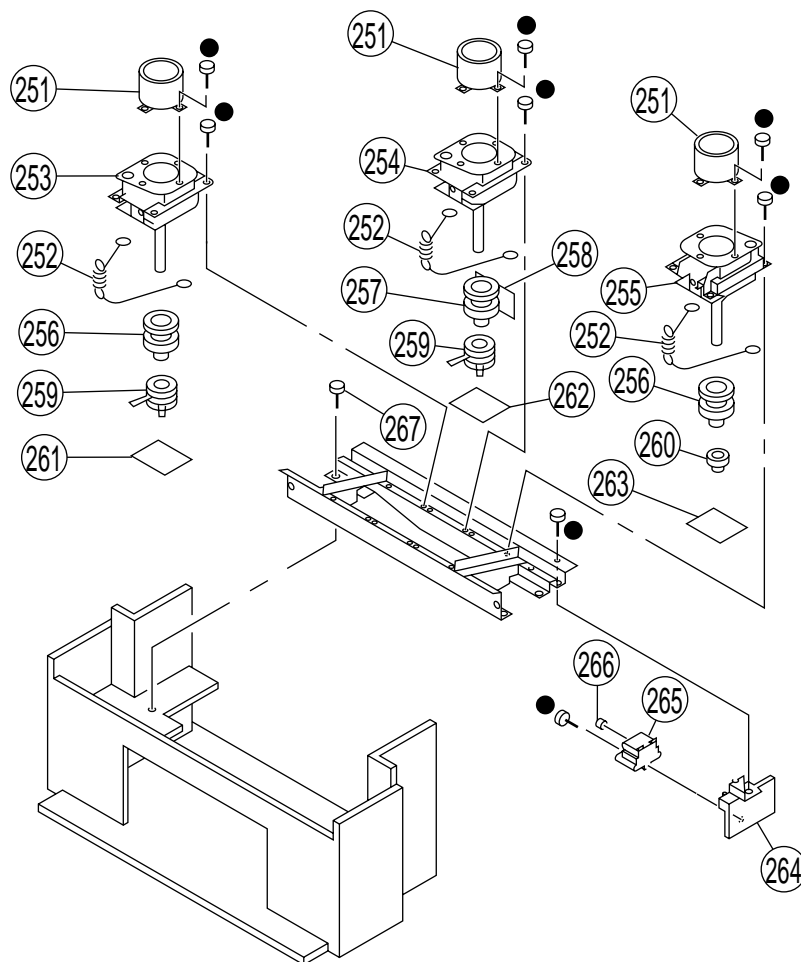
● : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
201	4-056-258-01	LENS (DELTA 78)		208	\triangle 1-452-790-21	NECK ASSY	
202	\triangle 8-733-572-01	PICTURE TUBE 07MXC2(R)		209	1-452-909-31	MAGNET ASSY, 4 POLE	
203	\triangle 8-733-570-01	PICTURE TUBE 07MXC2(G)		210	* A-1331-777-A	CR BOARD, COMPLETE (VAR)	
204	\triangle 8-733-575-01	PICTURE TUBE 07MAC2(B)		211	* A-1331-778-A	CG BOARD, COMPLETE (VAR)	
205	1-451-454-31	DEFLECTION YOKE (R) (B)		212	* A-1331-779-A	CB BOARD, COMPLETE (VAR)	
206	1-451-454-11	DEFLECTION YOKE (G)		213	4-052-894-01	SCREW (4x20), HEAD TAPPING	
207	* A-1390-826-A	Z BOARD, COMPLETE (COM)					

7-6. PICTURE TUBE (KP-48V75K/53S65T/53V75K)

● : +BVTP 4X12 7-685-661-14



REF. NO.	PART NO.	DESCRIPTION	REMARK
251	4-056-258-01	LENS (DELTA 78)	
252	4-057-007-01	SPRING, TENSION (KP-53V75K)	
253	\triangle 8-733-572-01	PICTURE TUBE 07MXC3(R)	
	\triangle A-1501-278-A	COUPLER (R) ASSY, PICTURE TUBE	(KP-48V75K/53S65T) (KP-53V75K)
254	\triangle A-1501-279-A	COUPLER (G) ASSY, PICTURE TUBE	(KP-53V75K)
	\triangle 8-733-570-01	PICTURE TUBE 07MXC2(G)	(KP-48V75K/53S65T)
255	\triangle A-1501-277-A	COUPLER (B) ASSY, PICTURE TUBE	(KP-53V75K)
	\triangle 8-733-575-01	PICTURE TUBE 07MAC3(B)	(KP-48V75K/53S65T)
256	1-451-454-31	DEFLECTION YOKE (R) (B)	
257	1-451-454-11	DEFLECTION YOKE (G)	
258	* A-1390-826-A	Z BOARD, COMPLETE (COM)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
259	\triangle 1-452-790-21	NECK ASSY (KP-48V75K/53S65T)	
260	1-452-909-31	MAGNET ASSY, 4 POLE	(KP-48V75K/53S65T)
261	* A-1331-777-A	CR BOARD, COMPLETE (VAR)	(KP-53S65T)
	* A-1331-804-A	CR BOARD, COMPLETE (VAR)	(KP-48V75K/53V75K)
262	* A-1331-778-A	CG BOARD, COMPLETE (VAR)	(KP-53S65T)
	* A-1331-805-A	CG BOARD, COMPLETE (VAR)	(KP-48V75K/53V75K)
263	* A-1331-779-A	CB BOARD, COMPLETE (VAR)	(KP-53S65T)
	* A-1331-806-A	CB BOARD, COMPLETE (VAR)	(KP-48V75K/53V75K)
264	* 4-057-596-01	BRACKET, HV	
265	8-598-955-30	BLOCK ASSY, HIGH-VOLTAGE	
266	4-373-137-01	CAP (Z), RUBBER	

SECTION 8

ELECTRICAL PARTS LIST



NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

- The components identified by \blacktriangle in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

PF : μ F

- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1241-326-A F BOARD, COMPLETE *****			
<CAPACITOR>			
C6001 \triangle	1-104-708-11	FILM 0.47 μ F 20% 250V	
C6002 \triangle	1-104-708-11	FILM 0.47 μ F 20% 250V	
C6004 \triangle	1-113-900-11	CERAMIC 470PF 10% 250V	
C6005 \triangle	1-113-907-51	CERAMIC 0.0022 μ F 20% 250V	
C6006 \triangle	1-113-907-51	CERAMIC 0.0022 μ F 20% 250V	
C6007 \triangle	1-113-907-51	CERAMIC 0.0022 μ F 20% 250V	
<CONNECTOR>			
CN6001 *	1-580-843-11	PIN, CONNECTOR (POWER)	
CN6002 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN6003	1-695-915-11	TAB (CONTACT)	
<FUSE>			
F6001 \triangle	1-532-506-51	FUSE 6.3A/250V	
	1-533-223-11	CLIP, FUSE ; F6001	
<COIL>			
L6001 \triangle	1-424-248-11	TRANSFORMER, LINE FILTER	
L6002 \triangle	1-424-248-11	TRANSFORMER, LINE FILTER	
<RESISTOR>			
R6001 \triangle	1-218-265-11	METAL 8.2M 5% 1W	
R6002 \triangle	1-202-981-11	CEMENTED 0.82 5% 20W	

* A-1190-265-A PT BOARD, COMPLETE (KP-41T65K/41T65T/53S65T) *****			
<CAPACITOR>			
C5001	1-104-664-11	ELECT 47 μ F 20% 25V	

REF. NO.	PART NO.	DESCRIPTION	REMARK
C5002	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C5003	1-126-957-11	ELECT 0.22 μ F 20% 50V	
C5004	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5005	1-163-017-00	CERAMIC CHIP 0.0047 μ F 10% 50V	
C5006	1-126-959-11	ELECT 0.47 μ F 20% 50V	
C5007	1-126-961-11	ELECT 2.2 μ F 20% 50V	
C5008	1-126-963-11	ELECT 4.7 μ F 20% 50V	
C5009	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C5010	1-126-934-11	ELECT 220 μ F 20% 16V	
C5011	1-126-960-11	ELECT 1 μ F 20% 50V	
C5012	1-126-959-11	ELECT 0.47 μ F 20% 50V	
C5013	1-163-021-91	CERAMIC CHIP 0.01 μ F 10% 50V	
C5014	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5015	1-163-229-11	CERAMIC CHIP 12PF 5% 50V	
C5016	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5017	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5018	1-126-934-11	ELECT 220 μ F 20% 16V	
C5019	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5020	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5021	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5022	1-163-259-91	CERAMIC CHIP 220PF 5% 50V	
C5023	1-126-964-11	ELECT 10 μ F 20% 50V	
C5024	1-126-933-11	ELECT 100 μ F 20% 16V	
C5025	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5051	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5052	1-164-489-11	CERAMIC CHIP 0.22 μ F 10% 16V	
C5053	1-104-664-11	ELECT 47 μ F 20% 25V	
C5054	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
C5055	1-164-346-11	CERAMIC CHIP 1 μ F 16V	
C5057	1-163-001-11	CERAMIC CHIP 220PF 10% 50V	
C5058	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5062	1-104-664-11	ELECT 47 μ F 20% 25V	
C5063	1-104-664-11	ELECT 47 μ F 20% 25V	
C5064	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C5065	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C5066	1-163-031-11	CERAMIC CHIP 0.01 μ F 50V	
C5067	1-163-031-11	CERAMIC CHIP 0.01 μ F 50V	
C5068	1-126-960-11	ELECT 1 μ F 20% 50V	
C5069	1-163-031-11	CERAMIC CHIP 0.01 μ F 50V	
C5070	1-163-031-11	CERAMIC CHIP 0.01 μ F 50V	
C5071	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5072	1-163-038-91	CERAMIC CHIP 0.1 μ F 25V	
C5073	1-164-005-11	CERAMIC CHIP 0.47 μ F 25V	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C5076	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C5153	1-104-664-11	ELECT	47μF 20% 25V
C5077	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C5154	1-104-664-11	ELECT	47μF 20% 25V
C5078	1-163-031-11	CERAMIC CHIP	0.01μF 50V	C5157	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C5079	1-104-664-11	ELECT	47μF 20% 25V				
C5080	1-126-960-11	ELECT	1μF 20% 50V			<CONNECTOR>	
C5101	1-104-664-11	ELECT	47μF 20% 25V				
C5102	1-163-031-11	CERAMIC CHIP	0.01μF 50V	CN5051	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
C5103	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	CN5101	1-770-156-21	CONNECTOR, BOARD TO BOARD 8P	
C5104	1-163-031-11	CERAMIC CHIP	0.01μF 50V				
C5105	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V			<DIODE>	
C5106	1-163-031-11	CERAMIC CHIP	0.01μF 50V				
C5107	1-163-245-11	CERAMIC CHIP	56PF 5% 50V	D5053	8-719-404-49	DIODE MA111	
C5108	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D5101	8-719-158-15	DIODE RD5.6SB	
C5109	1-126-964-11	ELECT	10μF 20% 50V				
C5110	1-126-964-11	ELECT	10μF 20% 50V			<FERRITE BEAD>	
C5111	1-163-099-00	CERAMIC CHIP	18PF 5% 50V				
C5112	1-163-031-11	CERAMIC CHIP	0.01μF 50V	FB5051	1-414-135-11	FERRITE	0μH
C5113	1-164-489-11	CERAMIC CHIP	0.22μF 10% 16V	FB5052	1-414-135-11	FERRITE	0μH
C5114	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	FB5053	1-414-135-11	FERRITE	0μH
C5115	1-163-231-11	CERAMIC CHIP	15PF 5% 50V	FB5101	1-216-295-91	CONDUCTOR, CHIP	0
C5116	1-164-096-11	CERAMIC	0.01μF 50V	FB5102	1-216-295-91	CONDUCTOR, CHIP	0
C5117	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	FB5103	1-216-295-91	CONDUCTOR, CHIP	0
C5118	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	FB5104	1-414-135-11	FERRITE	0μH
C5119	1-164-096-11	CERAMIC	0.01μF 50V	FB5105	1-414-135-11	FERRITE	0μH
C5120	1-163-231-11	CERAMIC CHIP	15PF 5% 50V	FB5106	1-414-135-11	FERRITE	0μH
C5121	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	FB5107	1-414-135-11	FERRITE	0μH
C5122	1-163-809-11	CERAMIC CHIP	0.047μF 10% 25V	FB5108	1-410-396-41	FERRITE	0.45μH
C5123	1-126-960-11	ELECT	1μF 20% 50V	FB5109	1-414-135-11	FERRITE	0μH
C5124	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	FB5110	1-414-135-11	FERRITE	0μH
C5125	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				
C5126	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V			<FILTER>	
C5127	1-104-664-11	ELECT	47μF 20% 25V	FL5101	1-239-847-11	FILTER, LOW PASS	
C5129	1-163-038-91	CERAMIC CHIP	0.1μF 25V	FL5102	1-239-847-11	FILTER, LOW PASS	
C5130	1-104-664-11	ELECT	47μF 20% 25V	FL5103	1-239-847-11	FILTER, LOW PASS	
C5131	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V				
C5132	1-163-231-11	CERAMIC CHIP	15PF 5% 50V			<IC>	
C5133	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC5001	8-752-086-80	IC CXA2019AQ-T4	
C5134	1-163-038-91	CERAMIC CHIP	0.1μF 25V	IC5052	8-759-533-89	IC SDA9288XE-GEG-B121	
C5135	1-163-031-11	CERAMIC CHIP	0.01μF 50V	IC5101	8-752-375-30	IC CXD2043Q	
C5136	1-163-031-11	CERAMIC CHIP	0.01μF 50V	IC5102	8-752-062-80	IC CXA1686M	
C5137	1-163-031-11	CERAMIC CHIP	0.01μF 50V	IC5103	8-759-701-56	IC NJM78M05FA	
C5138	1-104-664-11	ELECT	47μF 20% 25V				
C5139	1-126-964-11	ELECT	10μF 20% 50V			<COIL>	
C5140	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C5141	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C5142	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L5001	1-410-478-11	INDUCTOR	47μH
C5143	1-163-031-11	CERAMIC CHIP	0.01μF 50V	L5002	1-410-478-11	INDUCTOR	47μH
C5144	1-163-031-11	CERAMIC CHIP	0.01μF 50V	L5003	1-410-478-11	INDUCTOR	47μH
C5145	1-126-964-11	ELECT	10μF 20% 50V	L5004	1-410-478-11	INDUCTOR	47μH
C5146	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	L5052	1-408-607-31	INDUCTOR	22μH
C5147	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C5148	1-163-038-91	CERAMIC CHIP	0.1μF 25V	L5101	1-410-470-11	INDUCTOR	10μH
C5149	1-104-664-11	ELECT	47μF 20% 25V	L5102	1-410-476-11	INDUCTOR	33μH
C5150	1-163-031-11	CERAMIC CHIP	0.01μF 50V	L5103	1-410-470-11	INDUCTOR	10μH
C5151	1-104-664-11	ELECT	47μF 20% 25V	L5105	1-410-470-11	INDUCTOR	10μH
C5152	1-163-031-11	CERAMIC CHIP	0.01μF 50V				

PT

REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
<TRANSISTOR>							R5052	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q5001	8-729-422-27	TRANSISTOR 2SD601A-Q					R5053	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
Q5002	8-729-216-22	TRANSISTOR 2SA1162-G					R5054	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
Q5003	8-729-422-27	TRANSISTOR 2SD601A-Q					R5055	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q5004	8-729-422-27	TRANSISTOR 2SD601A-Q					R5056	1-216-073-00	RES,CHIP	10K	5%	1/10W	
Q5005	8-729-422-27	TRANSISTOR 2SD601A-Q					R5057	1-216-049-91	RES,CHIP	1K	5%	1/10W	
							R5058	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q5051	8-729-216-22	TRANSISTOR 2SA1162-G											
Q5052	8-729-216-22	TRANSISTOR 2SA1162-G					R5059	1-216-025-91	RES,CHIP	100	5%	1/10W	
Q5053	8-729-216-22	TRANSISTOR 2SA1162-G					R5060	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q5054	8-729-422-27	TRANSISTOR 2SD601A-Q					R5061	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
Q5055	8-729-216-22	TRANSISTOR 2SA1162-G					R5062	1-216-049-91	RES,CHIP	1K	5%	1/10W	
							R5063	1-216-025-91	RES,CHIP	100	5%	1/10W	
Q5056	8-729-422-27	TRANSISTOR 2SD601A-Q											
Q5057	8-729-422-27	TRANSISTOR 2SD601A-Q					R5072	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
Q5101	8-729-422-27	TRANSISTOR 2SD601A-Q					R5073	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q5102	8-729-216-22	TRANSISTOR 2SA1162-G					R5074	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
Q5103	8-729-216-22	TRANSISTOR 2SA1162-G					R5075	1-216-043-91	RES,CHIP	560	5%	1/10W	
							R5076	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
Q5104	8-729-216-22	TRANSISTOR 2SA1162-G											
Q5105	8-729-216-22	TRANSISTOR 2SA1162-G					R5077	1-216-045-00	RES,CHIP	680	5%	1/10W	
Q5106	8-729-422-27	TRANSISTOR 2SD601A-Q					R5078	1-216-041-00	RES,CHIP	470	5%	1/10W	
Q5107	8-729-422-27	TRANSISTOR 2SD601A-Q					R5079	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q5108	8-729-422-27	TRANSISTOR 2SD601A-Q					R5080	1-216-049-91	RES,CHIP	1K	5%	1/10W	
							R5081	1-216-041-00	RES,CHIP	470	5%	1/10W	
Q5109	8-729-216-22	TRANSISTOR 2SA1162-G											
Q5110	8-729-216-22	TRANSISTOR 2SA1162-G					R5082	1-216-025-91	RES,CHIP	100	5%	1/10W	
Q5111	8-729-216-22	TRANSISTOR 2SA1162-G					R5084	1-216-033-00	RES,CHIP	220	5%	1/10W	
Q5112	8-729-422-27	TRANSISTOR 2SD601A-Q					R5085	1-216-033-00	RES,CHIP	220	5%	1/10W	
							R5089	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
							R5090	1-216-025-91	RES,CHIP	100	5%	1/10W	
<RESISTOR>													
R5001	1-216-049-91	RES,CHIP	1K	5%	1/10W		R5091	1-216-025-91	RES,CHIP	100	5%	1/10W	
R5002	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5092	1-216-025-91	RES,CHIP	100	5%	1/10W	
R5003	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5102	1-216-295-91	CONDUCTOR, CHIP	0			
R5004	1-216-033-00	RES,CHIP	220	5%	1/10W		R5103	1-216-047-91	RES,CHIP	820	5%	1/10W	
R5005	1-216-025-91	RES,CHIP	100	5%	1/10W		R5104	1-216-295-91	CONDUCTOR, CHIP	0			
R5006	1-216-025-91	RES,CHIP	100	5%	1/10W		R5106	1-216-035-00	RES,CHIP	270	5%	1/10W	
R5007	1-216-025-91	RES,CHIP	100	5%	1/10W		R5107	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R5008	1-216-109-00	RES,CHIP	330K	5%	1/10W		R5108	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R5009	1-216-041-00	RES,CHIP	470	5%	1/10W		R5109	1-208-776-11	RES,CHIP	560	0.50%	1/10W	
R5010	1-216-071-00	RES,CHIP	8.2K	5%	1/10W		R5110	1-208-774-11	RES,CHIP	470	0.50%	1/10W	
R5011	1-216-077-00	RES,CHIP	15K	5%	1/10W		R5112	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R5012	1-216-073-00	RES,CHIP	10K	5%	1/10W		R5113	1-216-043-91	RES,CHIP	560	5%	1/10W	
R5013	1-216-053-00	RES,CHIP	1.5K	5%	1/10W		R5114	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R5014	1-216-025-91	RES,CHIP	100	5%	1/10W		R5115	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R5015	1-216-041-00	RES,CHIP	470	5%	1/10W		R5116	1-216-043-91	RES,CHIP	560	5%	1/10W	
R5016	1-216-041-00	RES,CHIP	470	5%	1/10W		R5117	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R5017	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5118	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R5018	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		R5120	1-208-766-11	RES,CHIP	220	0.50%	1/10W	
R5019	1-216-037-00	RES,CHIP	330	5%	1/10W		R5121	1-216-041-00	RES,CHIP	470	5%	1/10W	
R5021	1-216-041-00	RES,CHIP	470	5%	1/10W		R5122	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R5022	1-216-047-91	RES,CHIP	820	5%	1/10W		R5124	1-216-025-91	RES,CHIP	100	5%	1/10W	
R5023	1-216-041-00	RES,CHIP	470	5%	1/10W		R5127	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R5024	1-216-049-91	RES,CHIP	1K	5%	1/10W		R5128	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R5025	1-216-075-00	RES,CHIP	12K	5%	1/10W		R5129	1-216-043-91	RES,CHIP	560	5%	1/10W	
R5026	1-216-081-00	RES,CHIP	22K	5%	1/10W		R5130	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R5027	1-216-049-91	RES,CHIP	1K	5%	1/10W		R5132	1-216-043-91	RES,CHIP	560	5%	1/10W	
R5033	1-216-025-91	RES,CHIP	100	5%	1/10W		R5133	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R5051	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		R5134	1-216-077-00	RES,CHIP	15K	5%	1/10W	
							R5135	1-216-081-00	RES,CHIP	22K	5%	1/10W	

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K



REF. NO.	PART NO.	DESCRIPTION	REMARK		
R5136	1-216-081-00	RES,CHIP	22K	5%	1/10W
R5137	1-208-766-11	RES,CHIP	220	0.50%	1/10W
R5138	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R5139	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R5140	1-216-041-00	RES,CHIP	470	5%	1/10W
R5141	1-216-033-00	RES,CHIP	220	5%	1/10W
R5142	1-216-041-00	RES,CHIP	470	5%	1/10W
R5143	1-216-033-00	RES,CHIP	220	5%	1/10W
R5144	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R5145	1-216-035-00	RES,CHIP	270	5%	1/10W
R5146	1-216-035-00	RES,CHIP	270	5%	1/10W
R5147	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R5148	1-208-788-11	RES,CHIP	1.8K	0.50%	1/10W
R5149	1-216-043-91	RES,CHIP	560	5%	1/10W
R5150	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R5151	1-208-794-11	RES,CHIP	3.3K	0.50%	1/10W
R5152	1-216-025-91	RES,CHIP	100	5%	1/10W
R5156	1-216-025-91	RES,CHIP	100	5%	1/10W
R5157	1-216-025-91	RES,CHIP	100	5%	1/10W
R5158	1-216-025-91	RES,CHIP	100	5%	1/10W
R5159	1-216-025-91	RES,CHIP	100	5%	1/10W
R5160	1-216-025-91	RES,CHIP	100	5%	1/10W
R5161	1-216-025-91	RES,CHIP	100	5%	1/10W
R5163	1-216-025-91	RES,CHIP	100	5%	1/10W
<CRYSTAL>					
X5001	1-577-611-11	OSCILALTOR, CERAMIC			
X5002	1-567-505-11	OSCILLATOR, CRYSTAL			
X5051	1-760-095-21	VIBRATOR, CRYSTAL			
X5101	1-567-878-11	VIBRATOR, CRYSTAL			
X5102	1-577-611-11	OSCILALTOR, CERAMIC			

* A-1190-317-A PD BOARD, COMPLETE (KP-48V75K/53V75K)					

4-382-854-11	SCREW (M3X10), P, SW (+)				
4-382-854-11	SCREW (M3X10), P, SW (+)				
<CAPACITOR>					
C3001	1-104-664-11	ELECT	47μF	20%	25V
C3002	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3003	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V
C3004	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3005	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C3006	1-164-005-11	CERAMIC CHIP	0.47μF		16V
C3007	1-164-505-11	CERAMIC CHIP	2.2μF		16V
C3008	1-126-963-11	ELECT	4.7μF	20%	50V
C3009	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C3010	1-126-934-11	ELECT	220μF	20%	16V
C3011	1-126-960-11	ELECT	1μF	20%	50V
C3012	1-164-005-11	CERAMIC CHIP	0.47μF		16V

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C3013	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3014	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3015	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C3016	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3018	1-126-934-11	ELECT	220μF	20%	16V
C3019	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3020	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3021	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3022	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C3023	1-126-964-11	ELECT	10μF	20%	50V
C3024	1-126-933-11	ELECT	100μF	20%	16V
C3025	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3026	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3027	1-104-664-11	ELECT	47μF	20%	25V
C3028	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3029	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3030	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3031	1-104-664-11	ELECT	47μF	20%	25V
C3033	1-126-964-11	ELECT	10μF	20%	50V
C3034	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3035	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3201	1-104-664-11	ELECT	47μF	20%	25V
C3202	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3204	1-104-664-11	ELECT	47μF	20%	25V
C3205	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3206	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3207	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C3208	1-164-489-11	CERAMIC CHIP	0.22μF	10%	16V
C3209	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C3210	1-164-505-11	CERAMIC CHIP	2.2μF		16V
C3211	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C3212	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C3214	1-104-664-11	ELECT	47μF	20%	25V
C3215	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3216	1-164-005-11	CERAMIC CHIP	0.47μF		16V
C3217	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C3218	1-126-960-11	ELECT	1μF	20%	50V
C3219	1-164-005-11	CERAMIC CHIP	0.47μF		16V
C3220	1-126-934-11	ELECT	220μF	20%	16V
C3221	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C3222	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3223	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C3224	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3225	1-164-346-11	CERAMIC CHIP	1μF		16V
C3226	1-126-933-11	ELECT	100μF	20%	16V
C3227	1-126-934-11	ELECT	220μF	20%	16V
C3228	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C3229	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C3231	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3232	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3233	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3235	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3236	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3237	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3238	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C3239	1-163-038-91	CERAMIC CHIP	0.1μF		25V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C3240	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3418	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3241	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3419	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3242	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3420	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3243	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3421	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3244	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3422	1-126-964-11	ELECT	10μF 20% 50V
C3245	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3423	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C3246	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3424	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3247	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3425	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3248	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3426	1-104-664-11	ELECT	47μF 20% 25V
C3249	1-164-346-11	CERAMIC CHIP	1μF 16V	C3427	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3250	1-164-346-11	CERAMIC CHIP	1μF 16V	C3428	1-126-933-11	ELECT	100μF 20% 16V
C3251	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3429	1-126-935-11	ELECT	470μF 20% 6.3V
C3252	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3430	1-126-933-11	ELECT	100μF 20% 16V
C3253	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3431	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3254	1-164-346-11	CERAMIC CHIP	1μF 16V	C3432	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3255	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3433	1-126-933-11	ELECT	100μF 20% 16V
C3256	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3434	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3257	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3435	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3258	1-164-346-11	CERAMIC CHIP	1μF 16V	C3437	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3259	1-164-346-11	CERAMIC CHIP	1μF 16V	C3440	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3260	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	C3441	1-126-964-11	ELECT	10μF 20% 50V
C3261	1-163-259-91	CERAMIC CHIP	220PF 5% 50V	C3442	1-126-964-11	ELECT	10μF 20% 50V
C3262	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3443	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3263	1-126-964-11	ELECT	10μF 20% 50V	C3445	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3264	1-104-664-11	ELECT	47μF 20% 25V	C3446	1-126-964-11	ELECT	10μF 20% 50V
C3267	1-163-245-11	CERAMIC CHIP	56PF 5% 50V	C3447	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C3268	1-104-664-11	ELECT	47μF 20% 25V	C3448	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3269	1-104-664-11	ELECT	47μF 20% 25V	C3450	1-109-982-11	CERAMIC CHIP	1μF 10% 10V
C3270	1-126-933-11	ELECT	100μF 20% 16V	C3451	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3271	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3452	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C3272	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V	C3453	1-126-964-11	ELECT	10μF 20% 50V
C3283	1-126-963-11	ELECT	4.7μF 20% 50V	C3454	1-126-964-11	ELECT	10μF 20% 50V
C3284	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3455	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3285	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3456	1-126-964-11	ELECT	10μF 20% 50V
C3286	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3457	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C3287	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3458	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C3288	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3459	1-104-664-11	ELECT	47μF 20% 25V
C3289	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C3460	1-104-664-11	ELECT	47μF 20% 25V
C3290	1-104-664-11	ELECT	47μF 20% 25V	C3461	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
C3292	1-104-664-11	ELECT	47μF 20% 25V	C3462	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3401	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3463	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3402	1-163-131-00	CERAMIC CHIP	390PF 5% 50V	C3464	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3403	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3465	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3404	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C3466	1-126-916-11	ELECT	1000μF 20% 6.3V
C3405	1-163-235-11	CERAMIC CHIP	22PF 5% 50V	C3467	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3406	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C3468	1-104-760-11	CERAMIC CHIP	0.047μF 10% 50V
C3407	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3469	1-104-664-11	ELECT	47μF 20% 25V
C3409	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3470	1-104-664-11	ELECT	47μF 20% 25V
C3410	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3471	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3411	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3472	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3412	1-216-295-91	CONDUCTOR, CHIP	0 0	C3473	1-126-933-11	ELECT	100μF 20% 16V
C3413	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3474	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3414	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3475	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C3415	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3476	1-104-664-11	ELECT	47μF 20% 25V
C3416	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3478	1-163-231-11	CERAMIC CHIP	15PF 5% 50V
C3417	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C3479	1-163-231-11	CERAMIC CHIP	15PF 5% 50V



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C3480	1-126-933-11	ELECT	100μF 20% 16V			<IC>	
		<CONNECTOR>		IC3001	8-752-086-80	IC CXA2019AQ-T4	
				IC3002	8-759-932-69	IC BU4053BCF-T2	
CN3051	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P		IC3003	8-752-080-75	IC CXA2039M-T6	
CN3401	1-770-156-21	CONNECTOR, BOARD TO BOARD 8P		IC3004	8-752-058-68	IC CXA1315M	
				IC3201	8-759-351-59	IC TC528257J-80(EL)	
		<DIODE>		IC3202	8-752-086-80	IC CXA2019AQ-T4	
D3003	8-719-404-49	DIODE MA111		IC3203	8-759-498-32	IC SAB9076H/N4	
D3051	8-719-158-15	DIODE RD5.6SB		IC3204	8-759-932-69	IC BU4053BCF-T2	
D3052	8-719-158-15	DIODE RD5.6SB		IC3205	8-759-932-69	IC BU4053BCF-T2	
D3201	8-719-404-49	DIODE MA111		IC3402	8-759-473-05	IC UPD424210LE-60-E2	
D3202	8-719-404-49	DIODE MA111		IC3403	8-759-161-24	IC UPC659AGS-E2	
D3205	8-719-404-49	DIODE MA111		IC3404	8-759-536-12	IC UPD64081BGF-3BA	
D3206	8-719-991-33	DIODE 1SS133T-77		IC3405	8-759-445-59	IC BA033T	
D3401	8-719-404-49	DIODE MA111		IC3407	8-759-701-75	IC NJM7805FA	
		<FERRITE BEAD>				<COIL>	
FB3203	1-414-135-11	FERRITE	0μH	L3001	1-414-187-11	INDUCTOR	47μH
FB3204	1-414-135-11	FERRITE	0μH	L3002	1-414-187-11	INDUCTOR	47μH
FB3205	1-414-135-11	FERRITE	0μH	L3003	1-414-187-11	INDUCTOR	47μH
FB3206	1-414-135-11	FERRITE	0μH	L3004	1-414-187-11	INDUCTOR	47μH
FB3207	1-414-135-11	FERRITE	0μH	L3005	1-414-187-11	INDUCTOR	47μH
FB3208	1-414-135-11	FERRITE	0μH	L3201	1-414-187-11	INDUCTOR	47μH
FB3209	1-414-135-11	FERRITE	0μH	L3202	1-414-187-11	INDUCTOR	47μH
FB3210	1-414-135-11	FERRITE	0μH	L3203	1-414-187-11	INDUCTOR	47μH
FB3211	1-414-135-11	FERRITE	0μH	L3204	1-414-187-11	INDUCTOR	47μH
FB3212	1-414-135-11	FERRITE	0μH	L3205	1-414-187-11	INDUCTOR	47μH
FB3213	1-414-135-11	FERRITE	0μH	L3206	1-414-187-11	INDUCTOR	47μH
FB3214	1-414-135-11	FERRITE	0μH	L3207	1-414-187-11	INDUCTOR	47μH
FB3215	1-414-135-11	FERRITE	0μH	L3401	1-414-181-11	INDUCTOR	4.7μH
FB3216	1-414-135-11	FERRITE	0μH	L3402	1-414-187-11	INDUCTOR	47μH
FB3401	1-414-135-11	FERRITE	0μH	L3403	1-414-187-11	INDUCTOR	47μH
FB3402	1-414-135-11	FERRITE	0μH	L3404	1-414-187-11	INDUCTOR	47μH
FB3403	1-414-135-11	FERRITE	0μH	L3405	1-414-187-11	INDUCTOR	47μH
FB3404	1-414-135-11	FERRITE	0μH	L3406	1-414-187-11	INDUCTOR	47μH
FB3405	1-414-135-11	FERRITE	0μH	L3407	1-414-187-11	INDUCTOR	47μH
FB3406	1-414-135-11	FERRITE	0μH	L3408	1-414-187-11	INDUCTOR	47μH
FB3407	1-414-135-11	FERRITE	0μH	L3409	1-414-187-11	INDUCTOR	47μH
FB3408	1-414-135-11	FERRITE	0μH	L3410	1-414-187-11	INDUCTOR	47μH
FB3409	1-414-135-11	FERRITE	0μH			<TRANSISTOR>	
FB3411	1-414-135-11	FERRITE	0μH	Q3001	8-729-422-27	TRANSISTOR 2SD601A-Q	
FB3412	1-414-135-11	FERRITE	0μH	Q3002	8-729-216-22	TRANSISTOR 2SA1162-G	
FB3413	1-414-135-11	FERRITE	0μH	Q3003	8-729-422-27	TRANSISTOR 2SD601A-Q	
FB3414	1-414-135-11	FERRITE	0μH	Q3004	8-729-422-27	TRANSISTOR 2SD601A-Q	
FB3415	1-414-135-11	FERRITE	0μH	Q3005	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<FILTER>		Q3006	8-729-422-27	TRANSISTOR 2SD601A-Q	
FL3401	1-239-847-11	FILTER, LOW PASS		Q3007	8-729-422-27	TRANSISTOR 2SD601A-Q	
FL3402	1-239-847-11	FILTER, LOW PASS		Q3008	8-729-216-22	TRANSISTOR 2SA1162-G	
FL3403	1-239-847-11	FILTER, LOW PASS		Q3009	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q3010	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q3201	8-729-422-27	TRANSISTOR 2SD601A-Q	
				Q3202	8-729-422-27	TRANSISTOR 2SD601A-Q	
				Q3203	8-729-216-22	TRANSISTOR 2SA1162-G	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q3204	8-729-422-27	TRANSISTOR 2SD601A-Q		R3034	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q3205	8-729-422-27	TRANSISTOR 2SD601A-Q		R3035	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
				R3036	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3206	8-729-422-27	TRANSISTOR 2SD601A-Q		R3037	1-208-801-11	RES,CHIP	6.2K 0.50% 1/10W
Q3207	8-729-422-27	TRANSISTOR 2SD601A-Q		R3038	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q3208	8-729-216-22	TRANSISTOR 2SA1162-G		R3039	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3209	8-729-216-22	TRANSISTOR 2SA1162-G		R3040	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3210	8-729-216-22	TRANSISTOR 2SA1162-G		R3041	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q3211	8-729-216-22	TRANSISTOR 2SA1162-G		R3042	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3214	8-729-422-27	TRANSISTOR 2SD601A-Q		R3043	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3217	8-729-422-27	TRANSISTOR 2SD601A-Q		R3044	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3401	8-729-422-27	TRANSISTOR 2SD601A-Q		R3045	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3402	8-729-422-27	TRANSISTOR 2SD601A-Q		R3046	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q3403	8-729-216-22	TRANSISTOR 2SA1162-G		R3047	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3404	8-729-216-22	TRANSISTOR 2SA1162-G		R3048	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q3405	8-729-422-27	TRANSISTOR 2SD601A-Q		R3049	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3406	8-729-216-22	TRANSISTOR 2SA1162-G		R3050	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3407	8-729-422-27	TRANSISTOR 2SD601A-Q		R3051	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q3408	8-729-422-27	TRANSISTOR 2SD601A-Q		R3052	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q3409	8-729-422-27	TRANSISTOR 2SD601A-Q		R3053	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q3410	8-729-422-27	TRANSISTOR 2SD601A-Q		R3055	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
Q3411	8-729-422-27	TRANSISTOR 2SD601A-Q		R3202	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3412	8-729-422-27	TRANSISTOR 2SD601A-Q		R3203	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q3413	8-729-216-22	TRANSISTOR 2SA1162-G		R3204	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q3414	8-729-422-27	TRANSISTOR 2SD601A-Q		R3205	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
Q3415	8-729-422-27	TRANSISTOR 2SD601A-Q		R3206	1-216-025-91	RES,CHIP	100 5% 1/10W
Q3416	8-729-422-27	TRANSISTOR 2SD601A-Q		R3207	1-216-025-91	RES,CHIP	100 5% 1/10W
				R3208	1-216-025-91	RES,CHIP	100 5% 1/10W
<RESISTOR>				R3209	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3001	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3210	1-216-025-91	RES,CHIP	100 5% 1/10W
R3002	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3211	1-216-025-91	RES,CHIP	100 5% 1/10W
R3003	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3212	1-216-025-91	RES,CHIP	100 5% 1/10W
R3004	1-216-033-00	RES,CHIP	220 5% 1/10W	R3213	1-216-025-91	RES,CHIP	100 5% 1/10W
R3005	1-216-025-91	RES,CHIP	100 5% 1/10W	R3214	1-216-025-91	RES,CHIP	100 5% 1/10W
R3006	1-216-025-91	RES,CHIP	100 5% 1/10W	R3215	1-216-025-91	RES,CHIP	100 5% 1/10W
R3007	1-216-025-91	RES,CHIP	100 5% 1/10W	R3216	1-216-033-00	RES,CHIP	220 5% 1/10W
R3008	1-216-109-00	RES,CHIP	330K 5% 1/10W	R3217	1-216-025-91	RES,CHIP	100 5% 1/10W
R3009	1-216-037-00	RES,CHIP	330 5% 1/10W	R3218	1-216-025-91	RES,CHIP	100 5% 1/10W
R3010	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R3219	1-216-025-91	RES,CHIP	100 5% 1/10W
R3011	1-216-077-00	RES,CHIP	15K 5% 1/10W	R3220	1-216-109-00	RES,CHIP	330K 5% 1/10W
R3012	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3222	1-216-037-00	RES,CHIP	330 5% 1/10W
R3013	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R3223	1-216-025-91	RES,CHIP	100 5% 1/10W
R3014	1-216-025-91	RES,CHIP	100 5% 1/10W	R3224	1-216-025-91	RES,CHIP	100 5% 1/10W
R3015	1-216-025-91	RES,CHIP	100 5% 1/10W	R3225	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R3016	1-216-025-91	RES,CHIP	100 5% 1/10W	R3226	1-216-025-91	RES,CHIP	100 5% 1/10W
R3017	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3227	1-216-025-91	RES,CHIP	100 5% 1/10W
R3018	1-216-295-91	CONDUCTOR, CHIP	0	R3228	1-216-077-00	RES,CHIP	15K 5% 1/10W
R3019	1-216-037-00	RES,CHIP	330 5% 1/10W	R3229	1-216-025-91	RES,CHIP	100 5% 1/10W
R3021	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R3230	1-216-025-91	RES,CHIP	100 5% 1/10W
R3022	1-208-780-11	RES,CHIP	820 0.50% 1/10W	R3231	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3023	1-216-041-00	RES,CHIP	470 5% 1/10W	R3232	1-216-025-91	RES,CHIP	100 5% 1/10W
R3024	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	R3233	1-216-025-91	RES,CHIP	100 5% 1/10W
R3025	1-216-075-00	RES,CHIP	12K 5% 1/10W	R3234	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R3026	1-216-081-00	RES,CHIP	22K 5% 1/10W	R3235	1-216-025-91	RES,CHIP	100 5% 1/10W
R3027	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3236	1-216-025-91	RES,CHIP	100 5% 1/10W
R3033	1-216-025-91	RES,CHIP	100 5% 1/10W	R3237	1-216-049-91	RES,CHIP	1K 5% 1/10W

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

PD

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3238	1-216-025-91	RES,CHIP	100 5% 1/10W	R3413	1-216-025-91	RES,CHIP	100 5% 1/10W
R3239	1-216-025-91	RES,CHIP	100 5% 1/10W	R3414	1-216-295-91	CONDUCTOR, CHIP	0
R3240	1-216-025-91	RES,CHIP	100 5% 1/10W	R3415	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R3241	1-216-025-91	RES,CHIP	100 5% 1/10W	R3416	1-216-295-91	CONDUCTOR, CHIP	0
R3242	1-216-025-91	RES,CHIP	100 5% 1/10W	R3417	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3243	1-216-025-91	RES,CHIP	100 5% 1/10W	R3418	1-216-295-91	CONDUCTOR, CHIP	0
R3244	1-216-025-91	RES,CHIP	100 5% 1/10W	R3419	1-216-025-91	RES,CHIP	100 5% 1/10W
R3245	1-216-025-91	RES,CHIP	100 5% 1/10W	R3420	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R3246	1-216-025-91	RES,CHIP	100 5% 1/10W	R3421	1-216-025-91	RES,CHIP	100 5% 1/10W
R3247	1-216-041-00	RES,CHIP	470 5% 1/10W	R3422	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3248	1-216-037-00	RES,CHIP	330 5% 1/10W	R3426	1-216-025-91	RES,CHIP	100 5% 1/10W
R3249	1-208-774-11	RES,CHIP	470 0.50% 1/10W	R3427	1-216-025-91	RES,CHIP	100 5% 1/10W
R3251	1-208-780-11	RES,CHIP	820 0.50% 1/10W	R3428	1-208-812-11	RES,CHIP	18K 0.50% 1/10W
R3252	1-216-025-91	RES,CHIP	100 5% 1/10W	R3429	1-216-021-00	RES,CHIP	68 5% 1/10W
R3253	1-216-041-00	RES,CHIP	470 5% 1/10W	R3430	1-216-025-91	RES,CHIP	100 5% 1/10W
R3254	1-208-782-11	RES,CHIP	1K 0.50% 1/10W	R3431	1-216-025-91	RES,CHIP	100 5% 1/10W
R3255	1-216-075-00	RES,CHIP	12K 5% 1/10W	R3432	1-216-025-91	RES,CHIP	100 5% 1/10W
R3256	1-216-081-00	RES,CHIP	22K 5% 1/10W	R3433	1-216-025-91	RES,CHIP	100 5% 1/10W
R3257	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3434	1-216-025-91	RES,CHIP	100 5% 1/10W
R3258	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3436	1-216-025-91	RES,CHIP	100 5% 1/10W
R3259	1-216-025-91	RES,CHIP	100 5% 1/10W	R3437	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R3260	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3438	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3261	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3439	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3262	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3440	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R3263	1-208-764-11	RES,CHIP	180 0.50% 1/10W	R3441	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R3264	1-208-764-11	RES,CHIP	180 0.50% 1/10W	R3442	1-216-041-00	RES,CHIP	470 5% 1/10W
R3265	1-208-765-11	RES,CHIP	200 0.50% 1/10W	R3444	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3266	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R3445	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3267	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R3446	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R3268	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R3447	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R3269	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R3448	1-216-105-91	RES,CHIP	220K 5% 1/10W
R3270	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R3449	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R3271	1-216-025-91	RES,CHIP	100 5% 1/10W	R3450	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3277	1-216-025-91	RES,CHIP	100 5% 1/10W	R3451	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3285	1-216-009-00	RES,CHIP	22 5% 1/10W	R3452	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R3287	1-216-009-00	RES,CHIP	22 5% 1/10W	R3453	1-208-772-11	RES,CHIP	390 0.50% 1/10W
R3288	1-216-009-00	RES,CHIP	22 5% 1/10W	R3455	1-208-775-11	RES,CHIP	510 0.50% 1/10W
R3291	1-216-009-00	RES,CHIP	22 5% 1/10W	R3456	1-216-025-91	RES,CHIP	100 5% 1/10W
R3294	1-216-009-00	RES,CHIP	22 5% 1/10W	R3458	1-216-033-00	RES,CHIP	220 5% 1/10W
R3295	1-216-009-00	RES,CHIP	22 5% 1/10W	R3459	1-216-648-11	RES,CHIP	750 0.50% 1/10W
R3297	1-216-025-91	RES,CHIP	100 5% 1/10W	R3460	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R3298	1-216-295-91	CONDUCTOR, CHIP	0	R3461	1-216-047-91	RES,CHIP	820 5% 1/10W
R3307	1-216-025-91	RES,CHIP	100 5% 1/10W	R3462	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R3308	1-216-025-91	RES,CHIP	100 5% 1/10W	R3463	1-216-047-91	RES,CHIP	820 5% 1/10W
R3309	1-216-025-91	RES,CHIP	100 5% 1/10W	R3464	1-208-778-11	RES,CHIP	680 0.50% 1/10W
R3311	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3465	1-216-075-00	RES,CHIP	12K 5% 1/10W
R3312	1-216-025-91	RES,CHIP	100 5% 1/10W	R3466	1-216-085-00	RES,CHIP	33K 5% 1/10W
R3313	1-216-295-91	CONDUCTOR, CHIP	0	R3467	1-208-790-11	RES,CHIP	2.2K 0.50% 1/10W
R3401	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R3468	1-216-075-00	RES,CHIP	12K 5% 1/10W
R3402	1-216-295-91	CONDUCTOR, CHIP	0	R3469	1-216-085-00	RES,CHIP	33K 5% 1/10W
R3407	1-216-041-00	RES,CHIP	470 5% 1/10W	R3470	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W
R3408	1-216-045-00	RES,CHIP	680 5% 1/10W	R3472	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3409	1-216-025-91	RES,CHIP	100 5% 1/10W	R3473	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3410	1-216-025-91	RES,CHIP	100 5% 1/10W	R3474	1-216-017-91	RES,CHIP	47 5% 1/10W
R3411	1-216-295-91	CONDUCTOR, CHIP	0	R3475	1-216-017-91	RES,CHIP	47 5% 1/10W
R3412	1-216-025-91	RES,CHIP	100 5% 1/10W	R3477	1-208-776-11	RES,CHIP	560 0.50% 1/10W

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(KP-41T65K/41T65T/53S65T)

REF. NO.	PART NO.	DESCRIPTION	REMARK
R3478	1-216-049-91	RES,CHIP 1K	5% 1/10W
R3479	1-216-025-91	RES,CHIP 100	5% 1/10W
<CRYSTAL>			
X3001	1-577-611-11	OSCILALTOR, CERAMIC	
X3002	1-567-505-11	OSCILLATOR, CRYSTAL	
X3201	1-577-611-11	OSCILALTOR, CERAMIC	
X3202	1-567-505-11	OSCILLATOR, CRYSTAL	
X3401	1-767-882-21	VIBRATOR, CRYSTAL	

* A-1373-667-A U BOARD, COMPLETE (KP-48V75K/53V75K)			

<CAPACITOR>			
C4001	1-128-551-11	ELECT 22μF	20% 25V
C4002	1-128-551-11	ELECT 22μF	20% 25V
C4003	1-126-933-11	ELECT 100μF	20% 16V
C4004	1-126-964-11	ELECT 10μF	20% 50V
C4005	1-126-964-11	ELECT 10μF	20% 50V
<CONNECTOR>			
CN4001 *	1-564-522-11	PLUG, CONNECTOR 7P	
CN4002 *	1-564-523-11	PLUG, CONNECTOR 8P	
<DIODE>			
D4001	8-719-109-89	DIODE RD5.6ESB2	
D4002	8-719-109-89	DIODE RD5.6ESB2	
D4003	8-719-109-89	DIODE RD5.6ESB2	
D4004	8-719-109-89	DIODE RD5.6ESB2	
D4005	8-719-109-89	DIODE RD5.6ESB2	
D4006	8-719-110-17	DIODE RD10ESB2	
D4007	8-719-110-17	DIODE RD10ESB2	
D4008	8-719-110-17	DIODE RD10ESB2	
D4009	8-719-110-17	DIODE RD10ESB2	
D4010	8-719-110-17	DIODE RD10ESB2	
<JACK>			
J4001	1-764-143-11	JACK 3P	
J4002	1-764-143-11	JACK 3P	
J4003	1-764-143-11	JACK 3P	
J4004	1-764-143-11	JACK 3P	
J4005	1-764-143-11	JACK 3P	
J4006	1-774-358-11	JACK BLOCK, PIN	
<RESISTOR>			
R4006	1-247-895-91	CARBON 470K	5% 1/4W
R4007	1-247-895-91	CARBON 470K	5% 1/4W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R4008	1-247-804-11	CARBON 75	5% 1/4W
R4009	1-247-804-11	CARBON 75	5% 1/4W
R4010	1-247-804-11	CARBON 75	5% 1/4W

* A-1298-722-A A BOARD, COMPLETE (KP-41T65K)			

* A-1298-724-A A BOARD, COMPLETE (KP-41T65T/53S65T)			

* 4-051-927-01 CASE, SHIELD			
4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C001	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C004	1-126-933-11	ELECT 100μF	20% 16V
C005	1-126-964-11	ELECT 10μF	20% 50V
C006	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C017	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C018	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C019	1-126-960-11	ELECT 1μF	20% 50V
C021	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C024	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C025	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C026	1-107-714-11	ELECT 10μF	20% 16V
C027	1-126-935-11	ELECT 470μF	20% 16V
C028	1-107-714-11	ELECT 10μF	20% 16V
C032	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C033	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C034	1-163-809-11	CERAMIC CHIP 0.047μF	10% 25V
C035	1-104-664-11	ELECT 47μF	20% 25V
C036	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C037	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C038	1-126-960-11	ELECT 1μF	20% 50V
C045	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V
C046	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C047	1-163-010-11	CERAMIC CHIP 0.0012μF	10% 50V
C048	1-164-005-11	CERAMIC CHIP 0.47μF	25V
C054	1-163-033-91	CERAMIC CHIP 0.022μF	50V
C057	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C092	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C107	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C108	1-104-664-11	ELECT 47μF	20% 25V
C109	1-126-916-11	ELECT 1000μF	20% 6.3V
C110	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C111	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C119	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C120	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C121	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C124	1-163-031-11	CERAMIC CHIP 0.01μF	50V
C201	1-126-960-11	ELECT 1μF	20% 50V
C203	1-126-935-11	ELECT 470μF	20% 16V
C204	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C206	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C207	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

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(KP-41T65K/41T65T/53S65T)

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C208	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C401	1-126-964-11	ELECT	10μF	20%	50V
C209	1-126-964-11	ELECT	10μF	20%	50V	C402	1-126-964-11	ELECT	10μF	20%	50V
C210	1-126-964-11	ELECT	10μF	20%	50V	C403	1-137-367-11	FILM	0.0033μF	5%	50V
C211	1-126-964-11	ELECT	10μF	20%	50V						
C212	1-126-964-11	ELECT	10μF	20%	50V	C404	1-137-367-11	FILM	0.0033μF	5%	50V
C213	1-126-964-11	ELECT	10μF	20%	50V	C405	1-137-372-11	FILM	0.022μF	5%	50V
C216	1-126-964-11	ELECT	10μF	20%	50V	C406	1-130-495-00	FILM	0.1μF	5%	50V
C218	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C407	1-126-960-11	ELECT	1μF	20%	50V
C219	1-126-964-11	ELECT	10μF	20%	50V	C408	1-137-367-11	FILM	0.0033μF	5%	50V
C220	1-126-964-11	ELECT	10μF	20%	50V	C409	1-137-367-11	FILM	0.0033μF	5%	50V
C221	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C410	1-137-372-11	FILM	0.022μF	5%	50V
C224	1-104-664-11	ELECT	47μF	20%	25V	C411	1-130-495-00	FILM	0.1μF	5%	50V
C226	1-126-964-11	ELECT	10μF	20%	50V	C412	1-126-933-11	ELECT	100μF	20%	16V
C227	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C413	1-128-551-11	ELECT	22μF	20%	25V
C229	1-126-964-11	ELECT	10μF	20%	50V	C414	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C230	1-126-964-11	ELECT	10μF	20%	50V	C415	1-126-964-11	ELECT	10μF	20%	50V
C231	1-126-933-11	ELECT	100μF	20%	16V	C416	1-126-964-11	ELECT	10μF	20%	50V
C232	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C417	1-126-964-11	ELECT	10μF	20%	50V
C302	1-126-959-11	ELECT	0.47μF	20%	50V	C418	1-104-664-11	ELECT	47μF	20%	25V
C303	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C419	1-128-551-11	ELECT	22μF	20%	25V
C304	1-126-964-11	ELECT	10μF	20%	50V	C422	1-104-664-11	ELECT	47μF	20%	25V
C305	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C424	1-126-961-11	ELECT	2.2μF	20%	50V
C308	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C425	1-126-935-11	ELECT	470μF	20%	16V
C309	1-126-933-11	ELECT	100μF	20%	16V	C426	1-126-964-11	ELECT	10μF	20%	50V
C310	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C427	1-126-933-11	ELECT	100μF	20%	16V
C311	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V	C428	1-126-969-11	ELECT	220μF	20%	50V
C312	1-126-959-11	ELECT	0.47μF	20%	50V	C429	1-126-967-11	ELECT	47μF	20%	50V
C313	1-130-495-00	FILM	0.1μF	5%	50V	C430	1-126-964-11	ELECT	10μF	20%	50V
C314	1-130-495-00	FILM	0.1μF	5%	50V	C431	1-126-969-11	ELECT	220μF	20%	50V
C315	1-130-495-00	FILM	0.1μF	5%	50V	C432	1-137-194-81	FILM	0.47μF	5%	50V
C316	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C433	1-130-495-00	FILM	0.1μF	5%	50V
C317	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C434	1-128-550-11	ELECT	2200μF	20%	50V
C318	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C435	1-130-495-00	FILM	0.1μF	5%	50V
C319	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C436	1-128-548-11	ELECT	4700μF	20%	25V
C320	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C437	1-128-548-11	ELECT	4700μF	20%	25V
C321	1-126-963-11	ELECT	4.7μF	20%	50V	C440	1-126-964-11	ELECT	10μF	20%	50V
C322	1-130-495-00	MYLAR	0.1μF	5%	50V	C441	1-126-964-11	ELECT	10μF	20%	50V
C323	1-137-581-11	FILM	0.1μF	5%	100V	C1101	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C324	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V	C1102	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C325	1-126-959-11	ELECT	0.47μF	20%	50V	C1103	1-126-933-11	ELECT	100μF	20%	16V
C326	1-126-964-11	ELECT	10μF	20%	50V	C1104	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C329	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C1105	1-126-960-11	ELECT	1μF	20%	50V
C330	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C1106	1-126-933-11	ELECT	100μF	20%	16V
C331	1-126-959-11	ELECT	0.47μF	20%	50V	C1107	1-104-664-11	ELECT	47μF	20%	25V
C332	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C1108	1-126-964-11	ELECT	10μF	20%	50V
C333	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V	C1109	1-126-933-11	ELECT	100μF	20%	16V
C334	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V	C1110	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C335	1-126-935-11	ELECT	470μF	20%	16V	C1111	1-126-960-11	ELECT	1μF	20%	50V
C337	1-126-960-11	ELECT	1μF	20%	50V	C1112	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C338	1-126-961-11	ELECT	2.2μF	20%	50V	C1113	1-126-964-11	ELECT	10μF	20%	50V
C339	1-126-959-11	ELECT	0.47μF	20%	50V	C1114	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C342	1-130-495-00	FILM	0.1μF	5%	50V	C1115	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C344	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1116	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C345	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1117	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C349	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C1118	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C351	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1119	1-126-968-11	ELECT	100μF	20%	50V
						C1120	1-126-933-11	ELECT	100μF	20%	16V



(KP-41T65K/41T65T/53S65T)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C1122	1-104-664-11	ELECT	47μF 20% 25V	D002	8-719-991-33	DIODE 1SS133T-77	
C1123	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D003	8-719-991-33	DIODE 1SS133T-77	
C1501	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	D004	8-719-991-33	DIODE 1SS133T-77	
C1502	1-107-504-11	CERAMIC	10PF 0.5PF 500V	D007	8-719-109-89	DIODE RD5.6ESB2	
C1503	1-136-177-00	FILM	1μF 5% 50V	D010	8-719-109-89	DIODE RD5.6ESB2	
C1506	1-126-969-11	ELECT	220μF 20% 50V	D011	8-719-109-89	DIODE RD5.6ESB2	
C1507	1-163-243-11	CERAMIC CHIP	47PF 5% 50V	D202	8-719-110-17	DIODE RD10ESB2	
C1508	1-137-401-11	FILM	0.22μF 10% 100V	D203	8-719-109-89	DIODE RD5.6ESB2	
C1509	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	D206	8-719-977-28	DIODE DTZ10B	
C1510	1-126-942-61	ELECT	1000μF 20% 25V	D207	8-719-977-28	DIODE DTZ10B	
C1511	1-126-942-61	ELECT	1000μF 20% 25V	D208	8-719-977-28	DIODE DTZ10B	
C1513	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D209	8-719-977-28	DIODE DTZ10B	
C1514	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D210	8-719-977-28	DIODE DTZ10B	
C1517	1-126-964-11	ELECT	10μF 20% 50V	D211	8-719-977-28	DIODE DTZ10B	
C1518	1-126-933-11	ELECT	100μF 20% 16V	D212	8-719-977-28	DIODE DTZ10B	
C1519	1-126-933-11	ELECT	100μF 20% 16V	D213	8-719-977-28	DIODE DTZ10B	
C1520	1-126-964-11	ELECT	10μF 20% 50V	D214	8-719-110-17	DIODE RD10ESB2	
C1521	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	D215	8-719-110-17	DIODE RD10ESB2	
C1522	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D216	8-719-110-17	DIODE RD10ESB2	
C1523	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	D217	8-719-110-17	DIODE RD10ESB2	
C1524	1-137-150-11	MYLAR	0.01μF 10% 100V	D218	8-719-110-17	DIODE RD10ESB2	
C1525	1-106-220-00	MYLAR	0.1μF 10% 100V	D219	8-719-110-17	DIODE RD10ESB2	
C1601	1-126-935-11	ELECT	470μF 20% 16V	D220	8-719-110-17	DIODE RD10ESB2	
C1602	1-126-767-11	ELECT	1000μF 20% 16V	D221	8-719-110-17	DIODE RD10ESB2	
C1603	1-126-916-11	ELECT	1000μF 20% 6.3V	D222	8-719-110-17	DIODE RD10ESB2	
C1604	1-126-934-11	ELECT	220μF 20% 16V	D225	8-719-110-17	DIODE RD10ESB2	
C1605	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D226	8-719-110-17	DIODE RD10ESB2	
C1606	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D232	8-719-983-38	DIODE MTZJ-T-77-36B	
C1607	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D236	8-719-110-17	DIODE RD10ESB2	
C1608	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D237	8-719-110-17	DIODE RD10ESB2	
C1609	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D238	8-719-110-17	DIODE RD10ESB2	
C1610	1-126-933-11	ELECT	100μF 20% 16V	D239	8-719-991-33	DIODE 1SS133T-77	
C1611	1-163-031-11	CERAMIC CHIP	0.01μF 50V	D240	8-719-991-33	DIODE 1SS133T-77	
		<CONNECTOR>		D241	8-719-991-33	DIODE 1SS133T-77	
CN001	* 1-564-507-11	PLUG, CONNECTOR 4P		D305	8-719-110-17	DIODE RD10ESB2	
CN002	* 1-564-511-11	PLUG, CONNECTOR 8P		D401	8-719-991-33	DIODE 1SS133T-77	
CN003	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P		D403	8-719-983-38	DIODE MTZJ-T-77-36B	
CN004	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P		D405	8-719-991-33	DIODE 1SS133T-77	
CN301	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P		D406	8-719-991-33	DIODE 1SS133T-77	
CN302	* 1-564-508-11	PLUG, CONNECTOR 5P		D408	8-719-991-33	DIODE 1SS133T-77	
CN303	* 1-564-512-11	PLUG, CONNECTOR 9P		D410	8-719-983-38	DIODE MTZJ-T-77-36B	
CN304	1-770-155-21	CONNECTOR, BOARD TO BOARD 8P		D411	8-719-929-15	DIODE HZS9.1NB2	
CN305	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P		D1101	8-719-982-26	DIODE MTZJ-33B	
CN401	* 1-564-507-11	PLUG, CONNECTOR 4P		D1102	8-719-977-28	DIODE DTZ10B	
CN402	* 1-564-506-11	PLUG, CONNECTOR 3P		D1103	8-719-977-28	DIODE DTZ10B	
CN403	1-695-915-11	TAB (CONTACT)		D1104	8-719-977-28	DIODE DTZ10B	
CN1101	* 1-564-514-11	PLUG, CONNECTOR 11P		D1105	8-719-977-28	DIODE DTZ10B	
CN1501	* 1-564-506-11	PLUG, CONNECTOR 3P		D1106	8-719-977-28	DIODE DTZ10B	
CN1601	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P		D1107	8-719-977-28	DIODE DTZ10B	
CN1602	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P		D1501	8-719-109-89	DIODE RD5.6ESB2	
		<DIODE>		D1502	8-719-908-03	DIODE GP08D	
D001	8-719-991-33	DIODE 1SS133T-77				<FERRITE BEAD>	
				FB1102	1-414-135-11	FERRITE	0μH

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

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(KP-41T65K/41T65T/53S65T)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<IC>				<COIL>			
IC001	8-752-894-96	IC CXP85856A-009S		L002	1-410-482-31	INDUCTOR 100μH	
IC002	8-752-861-57	IC CXP85112B-613S		L003	1-410-482-31	INDUCTOR 100μH	
IC003	8-759-352-91	IC PST9143NL		L004	1-216-295-91	CONDUCTOR, CHIP	0
IC004	8-759-352-91	IC PST9143NL		L005	1-216-295-91	CONDUCTOR, CHIP	0
IC007	8-759-518-23	IC X24C04S8		L006	1-410-470-11	INDUCTOR 10μH	
IC201	8-759-534-81	IC MM1313AD/		L007	1-410-482-31	INDUCTOR 100μH	
IC301	8-752-076-76	IC CXA2025AS		L201	1-410-478-11	INDUCTOR 47μH	
IC401	8-759-369-39	IC BH3856FS-E2		L302	1-410-482-31	INDUCTOR 100μH	
IC402	8-759-100-96	IC UPC4558G2		L303	1-410-470-11	INDUCTOR 10μH	
IC403	8-759-089-13	IC TDA7262		L1101	1-410-478-11	INDUCTOR 47μH	
IC1101	8-759-231-53	IC TA7805S		L1103	1-410-478-11	INDUCTOR 47μH	
IC1501	8-759-192-71	IC STV9379		L1104	1-410-478-11	INDUCTOR 47μH	
IC1502	8-759-251-31	IC CA0007AM		L1105	1-410-470-11	INDUCTOR 10μH	
IC1601	8-759-198-03	IC PQ09RF21		L1106	1-410-478-11	INDUCTOR 47μH	
IC1602	8-759-231-53	IC TA7805S		L1501	1-406-663-21	INDUCTOR 0μH	
<JACK>				L1502	1-412-533-21	INDUCTOR 47μH	
J203	1-507-667-00	JACK, MIC		L1503	1-412-533-21	INDUCTOR 47μH	
J205	1-774-750-11	JACK BLOCK, PIN		L1601	1-406-975-21	INDUCTOR 0μH	
J206	1-774-749-11	JACK BLOCK, PIN		<NEON LAMP>			
J208	1-774-749-11	JACK BLOCK, PIN		NL1501	1-517-778-21	LAMP, NEON	
J209	1-774-751-11	TERMINAL BLOCK, S		<IC LINK>			
<CHIP CONDUCTOR>				PS401	1-532-984-11	LINK, IC 2A/90V	
JR003	1-216-295-91	CONDUCTOR, CHIP	0	<TRANSISTOR>			
JR201	1-216-295-91	CONDUCTOR, CHIP	0	Q001	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR202	1-216-295-91	CONDUCTOR, CHIP	0	Q002	8-729-027-38	TRANSISTOR DTA144EKA-T146	
JR1501	1-216-295-91	CONDUCTOR, CHIP	0	Q003	8-729-027-38	TRANSISTOR DTA144EKA-T146	
JR1502	1-216-295-91	CONDUCTOR, CHIP	0	Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
JR1601	1-216-295-91	CONDUCTOR, CHIP	0	Q005	8-729-216-22	TRANSISTOR 2SA1162-G	
JR1602	1-216-295-91	CONDUCTOR, CHIP	0	Q006	8-729-027-38	TRANSISTOR DTA144EKA-T146	
JR1603	1-216-295-91	CONDUCTOR, CHIP	0	Q007	1-801-806-11	TRANSISTOR DTC144EKA-T146	
JR1604	1-216-295-91	CONDUCTOR, CHIP	0	Q008	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1605	1-216-295-91	CONDUCTOR, CHIP	0	Q009	8-729-027-38	TRANSISTOR DTA144EKA-T146	
JR1607	1-216-295-91	CONDUCTOR, CHIP	0	Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1609	1-216-295-91	CONDUCTOR, CHIP	0	Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1610	1-216-295-91	CONDUCTOR, CHIP	0	Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1611	1-216-295-91	CONDUCTOR, CHIP	0	Q017	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1612	1-216-295-91	CONDUCTOR, CHIP	0	Q201	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1613	1-216-295-91	CONDUCTOR, CHIP	0	Q206	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR1614	1-216-295-91	CONDUCTOR, CHIP	0	Q207	1-801-806-11	TRANSISTOR DTC144EKA-T146	
JR1615	1-216-295-91	CONDUCTOR, CHIP	0	Q209	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR1617	1-216-295-91	CONDUCTOR, CHIP	0	Q213	8-729-216-22	TRANSISTOR 2SA1162-G	
JR1619	1-216-295-91	CONDUCTOR, CHIP	0	Q214	8-729-216-22	TRANSISTOR 2SA1162-G	
JR1620	1-216-295-91	CONDUCTOR, CHIP	0	Q216	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR1621	1-216-295-91	CONDUCTOR, CHIP	0	Q217	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR1622	1-216-295-91	CONDUCTOR, CHIP	0	Q218	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1623	1-216-295-91	CONDUCTOR, CHIP	0	Q219	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1624	1-216-295-91	CONDUCTOR, CHIP	0	Q220	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1625	1-216-295-91	CONDUCTOR, CHIP	0	Q226	8-729-422-27	TRANSISTOR 2SD601A-Q	
JR1627	1-216-295-91	CONDUCTOR, CHIP	0				
JR1629	1-216-295-91	CONDUCTOR, CHIP	0				



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		R038	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q302	8-729-216-22	TRANSISTOR 2SA1162-G		R039	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q		R040	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q304	8-729-422-27	TRANSISTOR 2SD601A-Q		R041	1-216-025-91	RES,CHIP 100	5% 1/10W
Q305	8-729-422-27	TRANSISTOR 2SD601A-Q		R042	1-216-089-91	RES,CHIP 47K	5% 1/10W
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		R043	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q307	8-729-422-27	TRANSISTOR 2SD601A-Q		R045	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R046	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q311	8-729-422-27	TRANSISTOR 2SD601A-Q		R047	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
Q312	8-729-422-27	TRANSISTOR 2SD601A-Q		R048	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q313	8-729-422-27	TRANSISTOR 2SD601A-Q		R050	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q314	8-729-422-27	TRANSISTOR 2SD601A-Q		R053	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q402	1-801-806-11	TRANSISTOR DTC144EKA-T146		R054	1-216-033-00	RES,CHIP 220	5% 1/10W
Q403	8-729-027-38	TRANSISTOR DTA144EKA-T146		R056	1-216-121-91	RES,CHIP 1M	5% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		R057	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q406	8-729-216-22	TRANSISTOR 2SA1162-G		R058	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q		R059	1-216-033-00	RES,CHIP 220	5% 1/10W
Q409	8-729-422-27	TRANSISTOR 2SD601A-Q		R060	1-216-033-00	RES,CHIP 220	5% 1/10W
Q410	8-729-422-27	TRANSISTOR 2SD601A-Q		R061	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q411	8-729-027-38	TRANSISTOR DTA144EKA-T146		R063	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q1101	1-801-806-11	TRANSISTOR DTC144EKA-T146		R064	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q1501	8-729-422-27	TRANSISTOR 2SD601A-Q		R065	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q2105	8-729-422-27	TRANSISTOR 2SD601A-Q		R066	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q2106	8-729-422-27	TRANSISTOR 2SD601A-Q		R067	1-216-033-00	RES,CHIP 220	5% 1/10W
		<RESISTOR>		R068	1-216-033-00	RES,CHIP 220	5% 1/10W
R003	1-216-295-91	CONDUCTOR, CHIP	0	R070	1-216-033-00	RES,CHIP 220	5% 1/10W
R004	1-216-033-00	RES,CHIP 220	5% 1/10W	R071	1-216-033-00	RES,CHIP 220	5% 1/10W
R005	1-216-033-00	RES,CHIP 220	5% 1/10W	R072	1-216-033-00	RES,CHIP 220	5% 1/10W
R006	1-216-033-00	RES,CHIP 220	5% 1/10W	R073	1-216-033-00	RES,CHIP 220	5% 1/10W
R007	1-216-081-00	RES,CHIP 22K	5% 1/10W	R074	1-216-049-91	RES,CHIP 1K	5% 1/10W
R008	1-216-073-00	RES,CHIP 10K	5% 1/10W	R075	1-216-049-91	RES,CHIP 1K	5% 1/10W
R009	1-216-033-00	RES,CHIP 220	5% 1/10W	R076	1-216-033-00	RES,CHIP 220	5% 1/10W
R010	1-216-033-00	RES,CHIP 220	5% 1/10W	R077	1-216-121-91	RES,CHIP 1M	5% 1/10W
R011	1-216-033-00	RES,CHIP 220	5% 1/10W	R078	1-216-097-91	RES,CHIP 100K	5% 1/10W
R012	1-216-033-00	RES,CHIP 220	5% 1/10W	R080	1-216-073-00	RES,CHIP 10K	5% 1/10W
R013	1-216-033-00	RES,CHIP 220	5% 1/10W	R081	1-216-033-00	RES,CHIP 220	5% 1/10W
R014	1-216-033-00	RES,CHIP 220	5% 1/10W	R084	1-216-073-00	RES,CHIP 10K	5% 1/10W
R015	1-216-025-91	RES,CHIP 100	5% 1/10W	R085	1-216-097-91	RES,CHIP 100K	5% 1/10W
R016	1-216-025-91	RES,CHIP 100	5% 1/10W	R086	1-216-033-00	RES,CHIP 220	5% 1/10W
R017	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R087	1-216-073-00	RES,CHIP 10K	5% 1/10W
R018	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R088	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R019	1-216-097-91	RES,CHIP 100K	5% 1/10W	R090	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R020	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	R091	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R021	1-216-089-91	RES,CHIP 47K	5% 1/10W	R092	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R023	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R099	1-216-037-00	RES,CHIP 330	5% 1/10W
R024	1-216-121-91	RES,CHIP 1M	5% 1/10W	R111	1-216-033-00	RES,CHIP 220	5% 1/10W
R025	1-216-097-91	RES,CHIP 100K	5% 1/10W	R112	1-216-033-00	RES,CHIP 220	5% 1/10W
R026	1-216-033-00	RES,CHIP 220	5% 1/10W	R113	1-216-033-00	RES,CHIP 220	5% 1/10W
R027	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R115	1-216-033-00	RES,CHIP 220	5% 1/10W
R030	1-216-073-00	RES,CHIP 10K	5% 1/10W	R117	1-216-033-00	RES,CHIP 220	5% 1/10W
R033	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R118	1-216-033-00	RES,CHIP 220	5% 1/10W
R034	1-216-073-00	RES,CHIP 10K	5% 1/10W	R119	1-216-033-00	RES,CHIP 220	5% 1/10W
R035	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R120	1-216-033-00	RES,CHIP 220	5% 1/10W
R036	1-216-033-00	RES,CHIP 220	5% 1/10W	R121	1-216-033-00	RES,CHIP 220	5% 1/10W
R037	1-216-033-00	RES,CHIP 220	5% 1/10W	R122	1-216-033-00	RES,CHIP 220	5% 1/10W
				R123	1-216-033-00	RES,CHIP 220	5% 1/10W

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RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

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(KP-41T65K/41T65T/53S65T)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R124	1-216-033-00	RES,CHIP	220 5% 1/10W	R268	1-216-105-91	RES,CHIP	220K 5% 1/10W
R125	1-216-033-00	RES,CHIP	220 5% 1/10W	R275	1-216-033-00	RES,CHIP	220 5% 1/10W
R127	1-216-033-00	RES,CHIP	220 5% 1/10W				
R128	1-216-033-00	RES,CHIP	220 5% 1/10W	R276	1-216-033-00	RES,CHIP	220 5% 1/10W
R131	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R277	1-216-025-91	RES,CHIP	100 5% 1/10W
R132	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R278	1-216-025-91	RES,CHIP	100 5% 1/10W
R133	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R279	1-216-025-91	RES,CHIP	100 5% 1/10W
R147	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R280	1-216-041-00	RES,CHIP	470 5% 1/10W
R148	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R281	1-216-041-00	RES,CHIP	470 5% 1/10W
R149	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R282	1-216-041-00	RES,CHIP	470 5% 1/10W
R154	1-216-025-91	RES,CHIP	100 5% 1/10W	R283	1-216-041-00	RES,CHIP	470 5% 1/10W
R155	1-216-025-91	RES,CHIP	100 5% 1/10W	R284	1-216-041-00	RES,CHIP	470 5% 1/10W
R156	1-216-113-00	RES,CHIP	470K 5% 1/10W	R285	1-216-041-00	RES,CHIP	470 5% 1/10W
R157	1-216-017-91	RES,CHIP	47 5% 1/10W	R286	1-216-025-91	RES,CHIP	100 5% 1/10W
R158	1-216-113-00	RES,CHIP	470K 5% 1/10W	R287	1-216-025-91	RES,CHIP	100 5% 1/10W
R159	1-216-017-91	RES,CHIP	47 5% 1/10W	R288	1-216-025-91	RES,CHIP	100 5% 1/10W
R160	1-216-113-00	RES,CHIP	470K 5% 1/10W	R289	1-216-025-91	RES,CHIP	100 5% 1/10W
R161	1-216-017-91	RES,CHIP	47 5% 1/10W	R290	1-216-025-91	RES,CHIP	100 5% 1/10W
R163	1-216-033-00	RES,CHIP	220 5% 1/10W	R291	1-216-025-91	RES,CHIP	100 5% 1/10W
R164	1-216-033-00	RES,CHIP	220 5% 1/10W	R294	1-216-043-91	RES,CHIP	560 5% 1/10W
R165	1-216-033-00	RES,CHIP	220 5% 1/10W	R295	1-216-073-00	RES,CHIP	10K 5% 1/10W
R171	1-216-035-00	RES,CHIP	270 5% 1/10W	R296	1-216-025-91	RES,CHIP	100 5% 1/10W
R172	1-216-035-00	RES,CHIP	270 5% 1/10W	R297	1-216-093-00	RES,CHIP	68K 5% 1/10W
R173	1-216-035-00	RES,CHIP	270 5% 1/10W	R299	1-216-041-00	RES,CHIP	470 5% 1/10W
R204	1-249-377-11	CARBON	0.47 5% 1/4W	R301	1-216-041-00	RES,CHIP	470 5% 1/10W
R206	1-216-022-00	RES,CHIP	75 5% 1/10W	R302	1-216-049-91	RES,CHIP	1K 5% 1/10W
R213	1-216-113-00	RES,CHIP	470K 5% 1/10W	R303	1-216-049-91	RES,CHIP	1K 5% 1/10W
R214	1-216-113-00	RES,CHIP	470K 5% 1/10W	R304	1-216-049-91	RES,CHIP	1K 5% 1/10W
R215	1-216-113-00	RES,CHIP	470K 5% 1/10W	R305	1-216-033-00	RES,CHIP	220 5% 1/10W
R216	1-216-113-00	RES,CHIP	470K 5% 1/10W	R306	1-216-025-91	RES,CHIP	100 5% 1/10W
R217	1-216-113-00	RES,CHIP	470K 5% 1/10W	R307	1-216-049-91	RES,CHIP	1K 5% 1/10W
R218	1-216-022-00	RES,CHIP	75 5% 1/10W	R308	1-216-017-91	RES,CHIP	47 5% 1/10W
R219	1-216-113-00	RES,CHIP	470K 5% 1/10W	R309	1-216-017-91	RES,CHIP	47 5% 1/10W
R220	1-216-113-00	RES,CHIP	470K 5% 1/10W	R310	1-216-017-91	RES,CHIP	47 5% 1/10W
R221	1-216-022-00	RES,CHIP	75 5% 1/10W	R314	1-216-033-00	RES,CHIP	220 5% 1/10W
R222	1-216-022-00	RES,CHIP	75 5% 1/10W	R315	1-216-033-00	RES,CHIP	220 5% 1/10W
R223	1-216-022-00	RES,CHIP	75 5% 1/10W	R319	1-216-033-00	RES,CHIP	220 5% 1/10W
R224	1-216-017-91	RES,CHIP	47 5% 1/10W	R320	1-216-033-00	RES,CHIP	220 5% 1/10W
R225	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R322	1-216-077-00	RES,CHIP	15K 5% 1/10W
R227	1-216-019-00	RES,CHIP	56 5% 1/10W	R323	1-216-025-91	RES,CHIP	100 5% 1/10W
R229	1-216-049-91	RES,CHIP	1K 5% 1/10W	R324	1-216-025-91	RES,CHIP	100 5% 1/10W
R230	1-216-113-00	RES,CHIP	470K 5% 1/10W	R325	1-216-025-91	RES,CHIP	100 5% 1/10W
R231	1-216-113-00	RES,CHIP	470K 5% 1/10W	R326	1-216-655-11	RES,CHIP	1.5K 0.50% 1/10W
R235	1-216-041-00	RES,CHIP	470 5% 1/10W	R327	1-216-049-91	RES,CHIP	1K 5% 1/10W
R236	1-216-041-00	RES,CHIP	470 5% 1/10W	R328	1-216-049-91	RES,CHIP	1K 5% 1/10W
R241	1-216-041-00	RES,CHIP	470 5% 1/10W	R330	1-216-025-91	RES,CHIP	100 5% 1/10W
R245	1-216-041-00	RES,CHIP	470 5% 1/10W	R331	1-216-025-91	RES,CHIP	100 5% 1/10W
R255	1-216-073-00	RES,CHIP	10K 5% 1/10W	R332	1-216-035-00	RES,CHIP	270 5% 1/10W
R258	1-216-089-91	RES,CHIP	47K 5% 1/10W	R333	1-208-810-11	RES,CHIP	15K 0.50% 1/10W
R260	1-216-073-00	RES,CHIP	10K 5% 1/10W	R334	1-216-043-91	RES,CHIP	560 5% 1/10W
R261	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R335	1-216-033-00	RES,CHIP	220 5% 1/10W
R262	1-216-095-00	RES,CHIP	82K 5% 1/10W	R337	1-216-033-00	RES,CHIP	220 5% 1/10W
R263	1-216-095-00	RES,CHIP	82K 5% 1/10W	R338	1-216-033-00	RES,CHIP	220 5% 1/10W
R264	1-216-089-91	RES,CHIP	47K 5% 1/10W	R339	1-216-033-00	RES,CHIP	220 5% 1/10W
R265	1-216-097-91	RES,CHIP	100K 5% 1/10W	R340	1-216-025-91	RES,CHIP	100 5% 1/10W
R266	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R342	1-216-025-91	RES,CHIP	100 5% 1/10W
				R343	1-216-073-00	RES,CHIP	10K 5% 1/10W



(KP-41T65K/41T65T/53S65T)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R344	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R430	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R345	1-216-109-00	RES,CHIP	330K 5% 1/10W	R432	1-216-081-00	RES,CHIP	22K 5% 1/10W
R346	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R433	1-216-011-00	RES,CHIP	27 5% 1/10W
R347	1-216-049-91	RES,CHIP	1K 5% 1/10W	R434	1-216-075-00	RES,CHIP	12K 5% 1/10W
R348	1-216-133-00	RES,CHIP	3.3M 5% 1/10W	R435	1-216-075-00	RES,CHIP	12K 5% 1/10W
R349	1-216-049-91	RES,CHIP	1K 5% 1/10W	R436	1-216-011-00	RES,CHIP	27 5% 1/10W
R350	1-216-049-91	RES,CHIP	1K 5% 1/10W	R437	1-249-418-11	CARBON	1.2K 5% 1/4W
R351	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R438	1-249-418-11	CARBON	1.2K 5% 1/4W
R352	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R439	1-249-389-11	CARBON	4.7 5% 1/4W
R353	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R440	1-249-389-11	CARBON	4.7 5% 1/4W
R354	1-216-073-00	RES,CHIP	10K 5% 1/10W	R441	1-216-073-00	RES,CHIP	10K 5% 1/10W
R355	1-216-089-91	RES,CHIP	47K 5% 1/10W	R442	1-216-025-91	RES,CHIP	100 5% 1/10W
R356	1-216-025-91	RES,CHIP	100 5% 1/10W	R443	1-216-295-91	CONDUCTOR, CHIP	0
R357	1-216-049-91	RES,CHIP	1K 5% 1/10W	R444	1-216-295-91	CONDUCTOR, CHIP	0
R361	1-216-041-00	RES,CHIP	470 5% 1/10W	R1101	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R362	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1102	1-216-083-00	RES,CHIP	27K 5% 1/10W
R363	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1103	1-216-689-11	RES,CHIP	39K 5% 1/10W
R364	1-208-783-11	RES,CHIP	1.1K 0.50% 1/10W	R1104	1-216-049-91	RES,CHIP	1K 5% 1/10W
R365	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1105	1-216-689-11	RES,CHIP	39K 5% 1/10W
R366	1-216-017-91	RES,CHIP	47 5% 1/10W	R1106	1-216-083-00	RES,CHIP	27K 5% 1/10W
R367	1-216-083-00	RES,CHIP	27K 5% 1/10W	R1107	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R368	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1108	1-215-900-11	METAL OXIDE	22K 5% 2W
R369	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1501	1-216-351-00	METAL OXIDE	1.5 5% 1W
R370	1-216-083-00	RES,CHIP	27K 5% 1/10W	R1502	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R371	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1504	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R372	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R1505	1-215-857-11	METAL OXIDE	10 5% 1W
R373	1-216-079-00	RES,CHIP	18K 5% 1/10W	R1506	1-215-888-00	METAL OXIDE	220 5% 2W
R374	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1507	1-216-081-00	RES,CHIP	22K 5% 1/10W
R375	1-216-113-00	RES,CHIP	470K 5% 1/10W	R1508	1-249-383-11	CARBON	1.5 5% 1/4W
R376	1-216-129-00	RES,CHIP	2.2M 5% 1/10W	R1509	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R377	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1510	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
R378	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R1511	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R379	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1520	1-216-089-91	RES,CHIP	47K 5% 1/10W
R380	1-216-089-91	RES,CHIP	47K 5% 1/10W	R1522	1-216-089-91	RES,CHIP	47K 5% 1/10W
R381	1-216-097-91	RES,CHIP	100K 5% 1/10W	R1523	1-216-073-00	RES,CHIP	10K 5% 1/10W
R384	1-249-377-11	CARBON	0.47 5% 1/4W	R1524	1-216-097-91	RES,CHIP	100K 5% 1/10W
R401	1-249-377-11	CARBON	0.47 5% 1/4W	R1525	1-216-686-11	METAL CHIP	30K 0.50% 1/10W
R403	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1526	1-216-686-11	METAL CHIP	30K 0.50% 1/10W
R404	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1527	1-216-097-91	RES,CHIP	100K 5% 1/10W
R406	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1528	1-216-089-91	RES,CHIP	47K 5% 1/10W
R407	1-216-025-91	RES,CHIP	100 5% 1/10W	R1529	1-216-025-91	RES,CHIP	100 5% 1/10W
R408	1-216-025-91	RES,CHIP	100 5% 1/10W	R2106	1-216-025-91	RES,CHIP	100 5% 1/10W
R412	1-216-025-91	RES,CHIP	100 5% 1/10W	R2109	1-216-041-00	RES,CHIP	470 5% 1/10W
R413	1-216-025-91	RES,CHIP	100 5% 1/10W	R2110	1-216-073-00	RES,CHIP	10K 5% 1/10W
R414	1-216-049-91	RES,CHIP	1K 5% 1/10W	R2111	1-216-089-91	RES,CHIP	47K 5% 1/10W
R415	1-216-041-00	RES,CHIP	470 5% 1/10W	R2112	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R416	1-216-041-00	RES,CHIP	470 5% 1/10W	R2201	1-216-041-00	RES,CHIP	470 5% 1/10W
R418	1-216-025-91	RES,CHIP	100 5% 1/10W	R2202	1-216-041-00	RES,CHIP	470 5% 1/10W
R422	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R2203	1-216-025-91	RES,CHIP	100 5% 1/10W
R423	1-216-025-91	RES,CHIP	100 5% 1/10W	R2204	1-216-045-00	RES,CHIP	680 5% 1/10W
R424	1-216-089-91	RES,CHIP	47K 5% 1/10W	R2205	1-216-041-00	RES,CHIP	470 5% 1/10W
R425	1-216-041-00	RES,CHIP	470 5% 1/10W	R2208	1-216-041-00	RES,CHIP	470 5% 1/10W
R427	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R2209	1-216-041-00	RES,CHIP	470 5% 1/10W
R428	1-216-049-91	RES,CHIP	1K 5% 1/10W	<THERMISTOR>			
R429	1-216-049-91	RES,CHIP	1K 5% 1/10W	TH1501	1-800-193-00	THERMISTOR	

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

A

(KP-48V75K/53V75K)

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
<TUNER>						C121	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
TU1101	8-598-426-00	TUNER, FSS BTF-WL401 (KP-41T65K)				C124	1-163-031-11	CERAMIC CHIP	0.01μF		50V
TU1101	8-598-435-00	TUNER, FSS BTF-WWG404				C202	1-126-935-11	ELECT	470μF	20%	16V
		(KP-41T65T/53S65T)				C203	1-126-935-11	ELECT	470μF	20%	16V
TU1102	8-598-339-00	TUNER, FSS BTF-LA402				C204	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
<CRYSTAL>						C205	1-126-964-11	ELECT	10μF	20%	50V
						C206	1-126-959-11	ELECT	0.47μF	20%	50V
						C207	1-126-959-11	ELECT	0.47μF	20%	50V
						C208	1-126-959-11	ELECT	0.47μF	20%	50V
X001	1-577-358-21	VIBRATOR, CERAMIC				C209	1-126-964-11	ELECT	10μF	20%	50V
X002	1-578-774-11	VIBRATOR, CRYSTAL									
X301	1-567-505-11	OSCILLATOR, CRYSTAL				C210	1-126-964-11	ELECT	10μF	20%	50V
X304	1-577-611-11	OSCILALTOR, CERAMIC				C211	1-126-964-11	ELECT	10μF	20%	50V
						C212	1-126-964-11	ELECT	10μF	20%	50V
						C213	1-126-964-11	ELECT	10μF	20%	50V
*****						C214	1-126-964-11	ELECT	10μF	20%	50V
						C215	1-126-964-11	ELECT	10μF	20%	50V
* A-1298-723-A	A BOARD, COMPLETE (KP-48V75K/53V75K)					C216	1-126-964-11	ELECT	10μF	20%	50V
*****						C218	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
						C219	1-126-964-11	ELECT	10μF	20%	50V
<CAPACITOR>						C220	1-126-964-11	ELECT	10μF	20%	50V
C001	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C221	1-126-959-11	ELECT	0.47μF	20%	50V
C004	1-126-933-11	ELECT	100μF	20%	16V	C222	1-126-959-11	ELECT	0.47μF	20%	50V
C005	1-126-964-11	ELECT	10μF	20%	50V	C223	1-126-959-11	ELECT	0.47μF	20%	50V
C006	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C224	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C017	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	C225	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C018	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C226	1-126-964-11	ELECT	10μF	20%	50V
C019	1-126-960-11	ELECT	1μF	20%	50V	C232	1-126-959-11	ELECT	0.47μF	20%	50V
C021	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C302	1-126-959-11	ELECT	0.47μF	20%	50V
C022	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C303	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C024	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V	C304	1-126-964-11	ELECT	10μF	20%	50V
C025	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C305	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C026	1-107-714-11	ELECT	10μF	20%	16V	C308	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C027	1-126-935-11	ELECT	470μF	20%	16V	C309	1-126-933-11	ELECT	100μF	20%	16V
C028	1-107-714-11	ELECT	10μF	20%	16V	C310	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C032	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C311	1-115-419-11	CERAMIC CHIP	3300PF	5%	25V
C033	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C312	1-126-959-11	ELECT	0.47μF	20%	50V
C034	1-163-809-11	CERAMIC CHIP	0.047μF	10%	25V	C313	1-130-495-00	FILM	0.1μF	5%	50V
C035	1-104-664-11	ELECT	47μF	20%	25V	C314	1-130-495-00	FILM	0.1μF	5%	50V
C036	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C315	1-130-495-00	FILM	0.1μF	5%	50V
C037	1-163-237-11	CERAMIC CHIP	27PF	5%	50V	C316	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C038	1-126-960-11	ELECT	1μF	20%	50V	C317	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C045	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V	C318	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C046	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C319	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C047	1-163-010-11	CERAMIC CHIP	0.0012μF	10%	50V	C320	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C048	1-164-005-11	CERAMIC CHIP	0.47μF		25V	C321	1-126-963-11	ELECT	4.7μF	20%	50V
C054	1-163-037-11	CERAMIC CHIP	0.022μF	10%	50V	C322	1-130-495-00	MYLAR	0.1μF	5%	50V
C057	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C323	1-137-581-11	FILM	0.1μF	5%	100V
C092	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	C324	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V
C107	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C325	1-126-959-11	ELECT	0.47μF	20%	50V
C108	1-104-664-11	ELECT	47μF	20%	25V	C326	1-126-964-11	ELECT	10μF	20%	50V
C109	1-126-916-11	ELECT	1000μF	20%	6.3V	C329	1-163-017-00	CERAMIC CHIP	0.0047μF	10%	50V
C110	1-163-231-11	CERAMIC CHIP	15PF	5%	50V	C330	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C111	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	C331	1-126-959-11	ELECT	0.47μF	20%	50V
C119	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C332	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
C120	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	C333	1-163-021-91	CERAMIC CHIP	0.01μF	10%	50V
						C334	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V



(KP-48V75K/53V75K)

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
C335	1-126-935-11	ELECT	470μF	20%	16V	C1106	1-126-933-11	ELECT	100μF	20%	16V
C337	1-126-960-11	ELECT	1μF	20%	50V	C1107	1-104-664-11	ELECT	47μF	20%	25V
C338	1-126-961-11	ELECT	2.2μF	20%	50V						
C339	1-126-959-11	ELECT	0.47μF	20%	50V	C1108	1-126-964-11	ELECT	10μF	20%	50V
C341	1-104-664-11	ELECT	47μF	20%	25V	C1109	1-126-933-11	ELECT	100μF	20%	16V
C342	1-130-495-00	FILM	0.1μF	5%	50V	C1110	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C344	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1111	1-126-960-11	ELECT	1μF	20%	50V
C345	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C1112	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C349	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C1113	1-126-964-11	ELECT	10μF	20%	50V
C351	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	C1114	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C401	1-126-964-11	ELECT	10μF	20%	50V	C1115	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C402	1-126-964-11	ELECT	10μF	20%	50V	C1116	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C403	1-137-366-11	FILM	0.0022μF	5%	50V	C1117	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C404	1-137-366-11	FILM	0.0022μF	5%	50V	C1118	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C405	1-130-495-00	FILM	0.1μF	5%	50V	C1119	1-126-968-11	ELECT	100μF	20%	50V
C406	1-130-495-00	FILM	0.1μF	5%	50V	C1120	1-126-933-11	ELECT	100μF	20%	16V
C407	1-126-960-11	ELECT	1μF	20%	50V	C1122	1-104-664-11	ELECT	47μF	20%	25V
C408	1-137-366-11	FILM	0.0022μF	5%	50V	C1123	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C409	1-137-366-11	FILM	0.0022μF	5%	50V	C1124	1-104-664-11	ELECT	47μF	20%	25V
C410	1-130-495-00	FILM	0.1μF	5%	50V	C1125	1-104-664-11	ELECT	47μF	20%	25V
C411	1-130-495-00	FILM	0.1μF	5%	50V	C1201	1-126-959-11	ELECT	0.47μF	20%	50V
C412	1-126-933-11	ELECT	100μF	20%	16V	C1202	1-104-664-11	ELECT	47μF	20%	25V
C413	1-128-551-11	ELECT	22μF	20%	25V	C1203	1-104-664-11	ELECT	47μF	20%	25V
C414	1-163-038-91	CERAMIC CHIP	0.1μF		25V	C1204	1-126-959-11	ELECT	0.47μF	20%	50V
C415	1-126-964-11	ELECT	10μF	20%	50V	C1205	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C416	1-126-964-11	ELECT	10μF	20%	50V	C1206	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C417	1-126-968-11	ELECT	100μF	20%	50V	C1207	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C418	1-126-964-11	ELECT	10μF	20%	50V	C1208	1-128-551-11	ELECT	22μF	20%	25V
C419	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	C1209	1-126-933-11	ELECT	100μF	20%	16V
C420	1-126-969-11	ELECT	220μF	20%	50V	C1210	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C421	1-126-963-11	ELECT	4.7μF	20%	50V	C1213	1-126-933-11	ELECT	100μF	20%	16V
C422	1-104-664-11	ELECT	47μF	20%	25V	C1501	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V
C424	1-126-968-11	ELECT	100μF	20%	50V	C1502	1-107-504-11	CERAMIC	10PF	0.5PF	500V
C425	1-126-935-11	ELECT	470μF	20%	16V	C1503	1-136-177-00	FILM	1μF	5%	50V
C426	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C1506	1-126-969-11	ELECT	220μF	20%	50V
C427	1-126-933-11	ELECT	100μF	20%	16V	C1507	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C428	1-126-969-11	ELECT	220μF	20%	50V	C1508	1-137-401-11	FILM	0.22μF	10%	100V
C429	1-163-033-91	CERAMIC CHIP	0.022μF		50V	C1509	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C430	1-130-495-00	FILM	0.1μF	5%	50V	C1510	1-126-942-61	ELECT	1000μF	20%	25V
C431	1-128-548-11	ELECT	4700μF	20%	25V	C1511	1-126-942-61	ELECT	1000μF	20%	25V
C432	1-128-548-11	ELECT	4700μF	20%	25V	C1513	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C433	1-130-495-00	FILM	0.1μF	5%	50V	C1514	1-163-031-11	CERAMIC CHIP	0.01μF		50V
C434	1-126-960-11	ELECT	1μF	20%	50V	C1517	1-126-964-11	ELECT	10μF	20%	50V
C435	1-126-968-11	ELECT	100μF	20%	50V	C1518	1-126-933-11	ELECT	100μF	20%	16V
C436	1-128-550-11	ELECT	2200μF	20%	50V	C1519	1-126-933-11	ELECT	100μF	20%	16V
C437	1-126-960-11	ELECT	1μF	20%	50V	C1520	1-126-964-11	ELECT	10μF	20%	50V
C438	1-126-964-11	ELECT	10μF	20%	50V	C1521	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V
C439	1-126-964-11	ELECT	10μF	20%	50V	C1522	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V
C440	1-126-964-11	ELECT	10μF	20%	50V	C1523	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C441	1-126-964-11	ELECT	10μF	20%	50V	C1524	1-137-150-11	MYLAR	0.01μF	10%	100V
C442	1-130-495-00	FILM	0.1μF	5%	50V	C1525	1-106-220-00	MYLAR	0.1μF	10%	100V
C1101	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C1601	1-126-935-11	ELECT	470μF	20%	16V
C1102	1-163-031-11	CERAMIC CHIP	0.01μF		50V	C1602	1-126-767-11	ELECT	1000μF	20%	16V
C1103	1-126-933-11	ELECT	100μF	20%	16V	C1603	1-126-916-11	ELECT	1000μF	20%	6.3V
C1104	1-164-161-11	CERAMIC CHIP	0.0022μF	10%	50V	C1604	1-126-934-11	ELECT	220μF	20%	16V
C1105	1-126-960-11	ELECT	1μF	20%	50V	C1605	1-163-031-11	CERAMIC CHIP	0.01μF		50V
						C1606	1-163-031-11	CERAMIC CHIP	0.01μF		50V

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RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

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(KP-48V75K/53V75K)

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK
C1607	1-163-031-11	CERAMIC CHIP	0.01μF		50V	CN401	* 1-564-507-11	PLUG, CONNECTOR 4P	
C1608	1-163-031-11	CERAMIC CHIP	0.01μF		50V	CN403	1-695-915-11	TAB (CONTACT)	
C1609	1-163-031-11	CERAMIC CHIP	0.01μF		50V	CN1101	* 1-564-514-11	PLUG, CONNECTOR 11P	
C1610	1-126-933-11	ELECT	100μF	20%	16V	CN1501	* 1-564-506-11	PLUG, CONNECTOR 3P	
C1611	1-163-031-11	CERAMIC CHIP	0.01μF		50V	CN1601	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P	
C1612	1-104-664-11	ELECT	47μF	20%	25V	CN1602	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P	
C1613	1-163-031-11	CERAMIC CHIP	0.01μF		50V	CN2101	* 1-564-510-11	PLUG, CONNECTOR 7P	
C1614	1-104-664-11	ELECT	47μF	20%	25V			<DIODE>	
C2101	1-126-960-11	ELECT	1μF	20%	50V	D001	8-719-991-33	DIODE 1SS133T-77	
C2102	1-126-964-11	ELECT	10μF	20%	50V	D002	8-719-991-33	DIODE 1SS133T-77	
C2103	1-163-031-11	CERAMIC CHIP	0.01μF		50V	D003	8-719-991-33	DIODE 1SS133T-77	
C2105	1-163-009-11	CERAMIC CHIP	0.001μF	10%	50V	D004	8-719-991-33	DIODE 1SS133T-77	
C2201	1-126-964-11	ELECT	10μF	20%	50V	D007	8-719-109-89	DIODE RD5.6ESB2	
C2202	1-126-964-11	ELECT	10μF	20%	50V	D008	8-719-991-33	DIODE 1SS133T-77	
C2203	1-130-488-00	MYLAR	0.027μF	5%	50V	D010	8-719-109-89	DIODE RD5.6ESB2	
C2204	1-137-368-11	FILM	0.0047μF	5%	50V	D011	8-719-109-89	DIODE RD5.6ESB2	
C2205	1-136-356-11	FILM	470PF	5%	50V	D202	8-719-110-17	DIODE RD10ESB2	
C2206	1-136-899-11	MYLAR	0.47μF	5%	50V	D205	8-719-110-17	DIODE RD10ESB2	
C2207	1-137-368-11	FILM	0.0047μF	5%	50V	D209	8-719-110-17	DIODE RD10ESB2	
C2208	1-130-495-00	FILM	0.1μF	5%	50V	D210	8-719-110-17	DIODE RD10ESB2	
C2209	1-136-899-11	MYLAR	0.47μF	5%	50V	D211	8-719-110-17	DIODE RD10ESB2	
C2210	1-137-371-11	FILM	0.015μF	5%	50V	D212	8-719-991-33	DIODE 1SS133T-77	
C2211	1-137-366-11	FILM	0.0022μF	5%	50V	D213	8-719-991-33	DIODE 1SS133T-77	
C2212	1-137-368-11	FILM	0.0047μF	5%	50V	D214	8-719-110-17	DIODE RD10ESB2	
C2213	1-136-899-11	MYLAR	0.47μF	5%	50V	D215	8-719-110-17	DIODE RD10ESB2	
C2214	1-130-495-00	FILM	0.1μF	5%	50V	D216	8-719-110-17	DIODE RD10ESB2	
C2215	1-137-370-11	FILM	0.01μF	5%	50V	D217	8-719-110-17	DIODE RD10ESB2	
C2216	1-104-664-11	ELECT	47μF	20%	25V	D218	8-719-110-17	DIODE RD10ESB2	
C2217	1-137-370-11	FILM	0.01μF	5%	50V	D219	8-719-110-17	DIODE RD10ESB2	
C2218	1-130-495-00	FILM	0.1μF	5%	50V	D220	8-719-110-17	DIODE RD10ESB2	
C2219	1-137-370-11	FILM	0.01μF	5%	50V	D221	8-719-110-17	DIODE RD10ESB2	
C2220	1-130-495-00	FILM	0.1μF	5%	50V	D222	8-719-110-17	DIODE RD10ESB2	
C2221	1-164-004-11	CERAMIC CHIP	0.1μF	10%	25V	D225	8-719-983-38	DIODE MTZJ-T-77-36B	
C2222	1-126-933-11	ELECT	100μF	20%	16V	D226	8-719-983-38	DIODE MTZJ-T-77-36B	
C2223	1-126-964-11	ELECT	10μF	20%	50V	D234	8-719-110-17	DIODE RD10ESB2	
C2224	1-126-964-11	ELECT	10μF	20%	50V	D235	8-719-110-17	DIODE RD10ESB2	
C2225	1-126-964-11	ELECT	10μF	20%	50V	D236	8-719-110-17	DIODE RD10ESB2	
						D237	8-719-110-17	DIODE RD10ESB2	
		<FILTER BLOCK>				D238	8-719-110-17	DIODE RD10ESB2	
CM201	1-467-554-21	FILTER BLOCK, COMB				D241	8-719-991-33	DIODE 1SS133T-77	
		<CONNECTOR>				D305	8-719-110-17	DIODE RD10ESB2	
CN001	* 1-564-507-11	PLUG, CONNECTOR 4P				D401	8-719-404-49	DIODE MA111	
CN002	* 1-564-511-11	PLUG, CONNECTOR 8P				D402	8-719-057-00	DIODE UDZ-TE-17-36B	
CN003	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P				D403	8-719-057-00	DIODE UDZ-TE-17-36B	
CN004	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P				D404	8-719-991-33	DIODE 1SS133T-77	
CN201	* 1-564-511-11	PLUG, CONNECTOR 8P				D405	8-719-991-33	DIODE 1SS133T-77	
CN202	* 1-564-506-11	PLUG, CONNECTOR 3P				D406	8-719-991-33	DIODE 1SS133T-77	
CN301	* 1-774-183-11	CONNECTOR, BOARD TOBOARD10P				D407	8-719-991-33	DIODE 1SS133T-77	
CN302	* 1-564-508-11	PLUG, CONNECTOR 5P				D408	8-719-991-33	DIODE 1SS133T-77	
CN303	* 1-564-512-11	PLUG, CONNECTOR 9P				D409	8-719-991-33	DIODE 1SS133T-77	
CN304	1-770-155-21	CONNECTOR, BOARD TO BOARD 8P				D410	8-719-057-00	DIODE UDZ-TE-17-36B	
CN305	1-573-298-21	CONNECTOR, BOARD TO BOARD 20P				D411	8-719-929-15	DIODE HZS9.1NB2	
						D412	8-719-991-33	DIODE 1SS133T-77	
						D1101	8-719-982-26	DIODE MTZJ-33B	



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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D1501	8-719-109-89	DIODE RD5.6ESB2		L007	1-414-857-11	INDUCTOR 100μH	
D1502	8-719-908-03	DIODE GP08D		L201	1-414-187-11	INDUCTOR 47μH	
D2101	8-719-991-33	DIODE 1SS133T-77		L202	1-414-187-11	INDUCTOR 47μH	
D2102	8-719-991-33	DIODE 1SS133T-77		L302	1-414-857-11	INDUCTOR 100μH	
D2201	8-719-991-33	DIODE 1SS133T-77		L303	1-414-856-11	INDUCTOR 10μH	
		<FERRITE BEAD>		L1101	1-414-187-11	INDUCTOR 47μH	
FB1102	1-414-135-11	FERRITE 0μH		L1103	1-414-187-11	INDUCTOR 47μH	
		<IC>		L1104	1-414-187-11	INDUCTOR 47μH	
IC001	8-752-900-79	IC CXP85856A-017S		L1105	1-414-856-11	INDUCTOR 10μH	
IC002	8-752-861-57	IC CXP85112B-613S		L1106	1-414-187-11	INDUCTOR 47μH	
IC003	8-759-352-91	IC PST9143NL					
IC004	8-759-352-91	IC PST9143NL		L1501	1-412-524-11	INDUCTOR 8.2μH	
IC007	8-759-518-23	IC X24C04S8		L1502	1-412-533-21	INDUCTOR 47μH	
				L1503	1-412-533-21	INDUCTOR 47μH	
IC201	8-752-081-32	IC CXA2079Q		L1601	1-406-975-21	INDUCTOR 0μH	
IC202	8-759-100-96	IC UPC4558G2					
IC301	8-752-076-76	IC CXA2025AS				<NEON LAMP>	
IC401	8-759-369-39	IC BH3856FS-E2		NL1501	1-517-778-21	LAMP, NEON	
IC402	8-759-100-96	IC UPC4558G2				<IC LINK>	
				PS401	1-532-984-11	LINK, IC 2A/90V	
IC403	8-759-100-96	IC UPC4558G2				<TRANSISTOR>	
IC404	8-759-168-24	IC TA8200AH		Q001	8-729-422-27	TRANSISTOR 2SD601A-Q	
IC1101	8-759-231-53	IC TA7805S		Q002	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC1501	8-759-192-71	IC STV9379		Q003	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC1502	8-759-251-31	IC CA0007AM		Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1601	8-759-459-99	IC PQ09RD11		Q005	8-729-216-22	TRANSISTOR 2SA1162-G	
IC1602	8-759-231-53	IC TA7805S		Q006	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC1603	8-759-459-99	IC PQ09RD11		Q007	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC2101	8-759-470-63	IC NJM2145M-TE2		Q008	8-729-422-27	TRANSISTOR 2SD601A-Q	
IC2201	8-759-493-92	IC NJM2178M-T2		Q009	8-729-027-38	TRANSISTOR DTA144EKA-T146	
IC2202	8-759-231-58	IC TA7812S		Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<JACK>		Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
J201	1-774-751-11	TERMINAL BLOCK, S		Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
J202	1-774-751-11	TERMINAL BLOCK, S		Q017	8-729-422-27	TRANSISTOR 2SD601A-Q	
J203	1-774-749-11	JACK BLOCK, PIN		Q201	8-729-422-27	TRANSISTOR 2SD601A-Q	
J204	1-774-749-11	JACK BLOCK, PIN		Q202	8-729-027-56	TRANSISTOR DTC143TKA-T146	
J205	1-774-750-11	JACK BLOCK, PIN		Q203	8-729-422-27	TRANSISTOR 2SD601A-Q	
		<CHIP CONDUCTOR>		Q204	8-729-216-22	TRANSISTOR 2SA1162-G	
JR11	1-216-295-00	CONDUCTOR, CHIP 0		Q205	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR20	1-216-295-00	CONDUCTOR, CHIP 0		Q206	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR21	1-216-295-00	CONDUCTOR, CHIP 0		Q207	8-729-027-56	TRANSISTOR DTC143TKA-T146	
JR22	1-216-295-00	CONDUCTOR, CHIP 0		Q208	8-729-027-56	TRANSISTOR DTC143TKA-T146	
		<COIL>		Q209	8-729-027-56	TRANSISTOR DTC143TKA-T146	
L002	1-414-857-11	INDUCTOR 100μH		Q210	8-729-422-27	TRANSISTOR 2SD601A-Q	
L003	1-414-857-11	INDUCTOR 100μH		Q211	8-729-422-27	TRANSISTOR 2SD601A-Q	
L004	1-216-295-00	CONDUCTOR, CHIP 0		Q212	8-729-422-27	TRANSISTOR 2SD601A-Q	
L005	1-216-295-00	CONDUCTOR, CHIP 0		Q213	8-729-216-22	TRANSISTOR 2SA1162-G	
L006	1-414-856-11	INDUCTOR 10μH		Q214	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q215	8-729-422-27	TRANSISTOR 2SD601A-Q	
				Q216	8-729-027-56	TRANSISTOR DTC143TKA-T146	
				Q217	8-729-027-56	TRANSISTOR DTC143TKA-T146	
				Q218	8-729-422-27	TRANSISTOR 2SD601A-Q	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q219	8-729-422-27	TRANSISTOR 2SD601A-Q		R017	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q220	8-729-422-27	TRANSISTOR 2SD601A-Q		R018	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q222	8-729-422-27	TRANSISTOR 2SD601A-Q		R019	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q223	8-729-422-27	TRANSISTOR 2SD601A-Q		R020	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q224	8-729-422-27	TRANSISTOR 2SD601A-Q		R021	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q226	8-729-422-27	TRANSISTOR 2SD601A-Q		R022	1-216-033-00	RES,CHIP	220 5% 1/10W
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		R023	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q302	8-729-216-22	TRANSISTOR 2SA1162-G		R024	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q303	8-729-422-27	TRANSISTOR 2SD601A-Q		R025	1-216-097-91	RES,CHIP	100K 5% 1/10W
Q304	8-729-422-27	TRANSISTOR 2SD601A-Q		R027	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q305	8-729-422-27	TRANSISTOR 2SD601A-Q		R029	1-216-033-00	RES,CHIP	220 5% 1/10W
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		R030	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q307	8-729-422-27	TRANSISTOR 2SD601A-Q		R033	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R034	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q311	8-729-422-27	TRANSISTOR 2SD601A-Q		R035	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q312	8-729-422-27	TRANSISTOR 2SD601A-Q		R036	1-216-033-00	RES,CHIP	220 5% 1/10W
Q313	8-729-422-27	TRANSISTOR 2SD601A-Q		R037	1-216-033-00	RES,CHIP	220 5% 1/10W
Q314	8-729-422-27	TRANSISTOR 2SD601A-Q		R038	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q401	8-729-422-27	TRANSISTOR 2SD601A-Q		R039	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q402	1-801-806-11	TRANSISTOR DTC144EKA-T146		R040	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q404	8-729-027-38	TRANSISTOR DTA144EKA-T146		R041	1-216-025-91	RES,CHIP	100 5% 1/10W
Q405	8-729-216-22	TRANSISTOR 2SA1162-G		R042	1-216-089-91	RES,CHIP	47K 5% 1/10W
Q406	8-729-216-22	TRANSISTOR 2SA1162-G		R043	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q407	8-729-422-27	TRANSISTOR 2SD601A-Q		R045	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q408	8-729-422-27	TRANSISTOR 2SD601A-Q		R046	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q409	8-729-422-27	TRANSISTOR 2SD601A-Q		R047	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q1101	1-801-806-11	TRANSISTOR DTC144EKA-T146		R048	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q1201	8-729-216-22	TRANSISTOR 2SA1162-G		R050	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q1501	8-729-422-27	TRANSISTOR 2SD601A-Q		R053	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2101	8-729-422-27	TRANSISTOR 2SD601A-Q		R054	1-216-033-00	RES,CHIP	220 5% 1/10W
Q2102	8-729-422-27	TRANSISTOR 2SD601A-Q		R056	1-216-121-91	RES,CHIP	1M 5% 1/10W
Q2103	8-729-216-22	TRANSISTOR 2SA1162-G		R057	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2104	8-729-216-22	TRANSISTOR 2SA1162-G		R058	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2106	8-729-216-22	TRANSISTOR 2SA1162-G		R059	1-216-033-00	RES,CHIP	220 5% 1/10W
Q2107	8-729-216-22	TRANSISTOR 2SA1162-G		R060	1-216-033-00	RES,CHIP	220 5% 1/10W
Q2109	8-729-216-22	TRANSISTOR 2SA1162-G		R061	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q2111	1-801-806-11	TRANSISTOR DTC144EKA-T146		R063	1-216-073-00	RES,CHIP	10K 5% 1/10W
<RESISTOR>				R064	1-216-049-91	RES,CHIP	1K 5% 1/10W
R001	1-216-033-00	RES,CHIP	220 5% 1/10W	R065	1-216-049-91	RES,CHIP	1K 5% 1/10W
R002	1-216-033-00	RES,CHIP	220 5% 1/10W	R066	1-216-049-91	RES,CHIP	1K 5% 1/10W
R003	1-216-295-00	CONDUCTOR, CHIP	0	R067	1-216-033-00	RES,CHIP	220 5% 1/10W
R004	1-216-033-00	RES,CHIP	220 5% 1/10W	R068	1-216-033-00	RES,CHIP	220 5% 1/10W
R005	1-216-033-00	RES,CHIP	220 5% 1/10W	R069	1-216-033-00	RES,CHIP	220 5% 1/10W
R006	1-216-033-00	RES,CHIP	220 5% 1/10W	R070	1-216-033-00	RES,CHIP	220 5% 1/10W
R007	1-216-081-00	RES,CHIP	22K 5% 1/10W	R071	1-216-033-00	RES,CHIP	220 5% 1/10W
R008	1-216-073-00	RES,CHIP	10K 5% 1/10W	R072	1-216-033-00	RES,CHIP	220 5% 1/10W
R009	1-216-033-00	RES,CHIP	220 5% 1/10W	R073	1-216-033-00	RES,CHIP	220 5% 1/10W
R010	1-216-033-00	RES,CHIP	220 5% 1/10W	R074	1-216-049-91	RES,CHIP	1K 5% 1/10W
R011	1-216-033-00	RES,CHIP	220 5% 1/10W	R075	1-216-049-91	RES,CHIP	1K 5% 1/10W
R012	1-216-033-00	RES,CHIP	220 5% 1/10W	R076	1-216-033-00	RES,CHIP	220 5% 1/10W
R013	1-216-033-00	RES,CHIP	220 5% 1/10W	R077	1-216-121-91	RES,CHIP	1M 5% 1/10W
R014	1-216-033-00	RES,CHIP	220 5% 1/10W	R078	1-216-097-91	RES,CHIP	100K 5% 1/10W
R015	1-216-025-91	RES,CHIP	100 5% 1/10W	R080	1-216-049-91	RES,CHIP	1K 5% 1/10W
R016	1-216-025-91	RES,CHIP	100 5% 1/10W	R081	1-216-033-00	RES,CHIP	220 5% 1/10W
				R084	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R085	1-216-097-91	RES,CHIP	100K 5% 1/10W



(KP-48V75K/53V75K)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R086	1-216-033-00	RES,CHIP	220 5% 1/10W	R213	1-216-113-00	RES,CHIP	470K 5% 1/10W
R087	1-216-073-00	RES,CHIP	10K 5% 1/10W	R214	1-216-113-00	RES,CHIP	470K 5% 1/10W
R088	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R215	1-216-089-91	RES,CHIP	47K 5% 1/10W
R090	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R216	1-216-113-00	RES,CHIP	470K 5% 1/10W
R091	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R217	1-216-113-00	RES,CHIP	470K 5% 1/10W
R092	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R218	1-216-022-00	RES,CHIP	75 5% 1/10W
R099	1-216-037-00	RES,CHIP	330 5% 1/10W	R219	1-216-113-00	RES,CHIP	470K 5% 1/10W
R101	1-216-033-00	RES,CHIP	220 5% 1/10W	R220	1-216-113-00	RES,CHIP	470K 5% 1/10W
R106	1-216-033-00	RES,CHIP	220 5% 1/10W	R221	1-216-022-00	RES,CHIP	75 5% 1/10W
R111	1-216-033-00	RES,CHIP	220 5% 1/10W	R222	1-216-022-00	RES,CHIP	75 5% 1/10W
R112	1-216-033-00	RES,CHIP	220 5% 1/10W	R223	1-216-022-00	RES,CHIP	75 5% 1/10W
R113	1-216-033-00	RES,CHIP	220 5% 1/10W	R224	1-216-017-91	RES,CHIP	47 5% 1/10W
R115	1-216-033-00	RES,CHIP	220 5% 1/10W	R225	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R117	1-216-033-00	RES,CHIP	220 5% 1/10W	R226	1-216-073-00	RES,CHIP	10K 5% 1/10W
R118	1-216-033-00	RES,CHIP	220 5% 1/10W	R227	1-216-019-00	RES,CHIP	56 5% 1/10W
R119	1-216-033-00	RES,CHIP	220 5% 1/10W	R228	1-216-017-91	RES,CHIP	47 5% 1/10W
R120	1-216-033-00	RES,CHIP	220 5% 1/10W	R229	1-216-049-91	RES,CHIP	1K 5% 1/10W
R121	1-216-033-00	RES,CHIP	220 5% 1/10W	R230	1-216-113-00	RES,CHIP	470K 5% 1/10W
R122	1-216-033-00	RES,CHIP	220 5% 1/10W	R231	1-216-113-00	RES,CHIP	470K 5% 1/10W
R123	1-216-033-00	RES,CHIP	220 5% 1/10W	R232	1-216-041-00	RES,CHIP	470 5% 1/10W
R124	1-216-033-00	RES,CHIP	220 5% 1/10W	R233	1-216-041-00	RES,CHIP	470 5% 1/10W
R125	1-216-033-00	RES,CHIP	220 5% 1/10W	R234	1-216-041-00	RES,CHIP	470 5% 1/10W
R126	1-216-033-00	RES,CHIP	220 5% 1/10W	R235	1-216-041-00	RES,CHIP	470 5% 1/10W
R127	1-216-033-00	RES,CHIP	220 5% 1/10W	R236	1-216-041-00	RES,CHIP	470 5% 1/10W
R128	1-216-033-00	RES,CHIP	220 5% 1/10W	R240	1-216-081-00	RES,CHIP	22K 5% 1/10W
R129	1-216-033-00	RES,CHIP	220 5% 1/10W	R241	1-216-041-00	RES,CHIP	470 5% 1/10W
R131	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R242	1-216-081-00	RES,CHIP	22K 5% 1/10W
R132	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R243	1-216-081-00	RES,CHIP	22K 5% 1/10W
R133	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R244	1-208-775-11	RES,CHIP	510 0.50% 1/10W
R147	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R245	1-216-041-00	RES,CHIP	470 5% 1/10W
R148	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R246	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R149	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R247	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R154	1-216-025-91	RES,CHIP	100 5% 1/10W	R248	1-216-073-00	RES,CHIP	10K 5% 1/10W
R155	1-216-025-91	RES,CHIP	100 5% 1/10W	R249	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R156	1-216-113-00	RES,CHIP	470K 5% 1/10W	R250	1-216-041-00	RES,CHIP	470 5% 1/10W
R157	1-216-017-91	RES,CHIP	47 5% 1/10W	R251	1-216-041-00	RES,CHIP	470 5% 1/10W
R158	1-216-113-00	RES,CHIP	470K 5% 1/10W	R252	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R159	1-216-017-91	RES,CHIP	47 5% 1/10W	R253	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R160	1-216-113-00	RES,CHIP	470K 5% 1/10W	R254	1-208-776-11	RES,CHIP	560 0.50% 1/10W
R161	1-216-017-91	RES,CHIP	47 5% 1/10W	R255	1-216-073-00	RES,CHIP	10K 5% 1/10W
R163	1-216-035-00	RES,CHIP	270 5% 1/10W	R258	1-216-089-91	RES,CHIP	47K 5% 1/10W
R164	1-216-035-00	RES,CHIP	270 5% 1/10W	R260	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R165	1-216-035-00	RES,CHIP	270 5% 1/10W	R261	1-216-049-91	RES,CHIP	1K 5% 1/10W
R171	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R262	1-216-049-91	RES,CHIP	1K 5% 1/10W
R172	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R264	1-216-025-91	RES,CHIP	100 5% 1/10W
R173	1-208-769-11	RES,CHIP	300 0.50% 1/10W	R265	1-216-041-00	RES,CHIP	470 5% 1/10W
R201	1-216-022-00	RES,CHIP	75 5% 1/10W	R266	1-216-045-00	RES,CHIP	680 5% 1/10W
R202	1-216-089-91	RES,CHIP	47K 5% 1/10W	R267	1-216-041-00	RES,CHIP	470 5% 1/10W
R203	1-216-022-00	RES,CHIP	75 5% 1/10W	R268	1-216-041-00	RES,CHIP	470 5% 1/10W
R205	1-216-089-91	RES,CHIP	47K 5% 1/10W	R269	1-216-041-00	RES,CHIP	470 5% 1/10W
R206	1-216-022-00	RES,CHIP	75 5% 1/10W	R273	1-216-041-00	RES,CHIP	470 5% 1/10W
R207	1-216-022-00	RES,CHIP	75 5% 1/10W	R274	1-216-019-00	RES,CHIP	56 5% 1/10W
R208	1-216-049-91	RES,CHIP	1K 5% 1/10W	R294	1-216-043-91	RES,CHIP	560 5% 1/10W
R209	1-216-089-91	RES,CHIP	47K 5% 1/10W	R295	1-216-073-00	RES,CHIP	10K 5% 1/10W
R210	1-216-113-00	RES,CHIP	470K 5% 1/10W	R298	1-216-041-00	RES,CHIP	470 5% 1/10W
R211	1-216-113-00	RES,CHIP	470K 5% 1/10W	R299	1-216-041-00	RES,CHIP	470 5% 1/10W
R212	1-216-089-91	RES,CHIP	47K 5% 1/10W				

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

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(KP-48V75K/53V75K)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R301	1-216-041-00	RES,CHIP	470 5% 1/10W	R367	1-216-083-00	RES,CHIP	27K 5% 1/10W
R302	1-216-049-91	RES,CHIP	1K 5% 1/10W	R368	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R303	1-216-049-91	RES,CHIP	1K 5% 1/10W	R369	1-216-073-00	RES,CHIP	10K 5% 1/10W
R304	1-216-049-91	RES,CHIP	1K 5% 1/10W	R370	1-216-083-00	RES,CHIP	27K 5% 1/10W
R305	1-216-033-00	RES,CHIP	220 5% 1/10W				
R306	1-216-025-91	RES,CHIP	100 5% 1/10W	R371	1-216-077-00	RES,CHIP	15K 5% 1/10W
R307	1-216-049-91	RES,CHIP	1K 5% 1/10W	R372	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R308	1-216-017-91	RES,CHIP	47 5% 1/10W	R373	1-216-079-00	RES,CHIP	18K 5% 1/10W
R309	1-216-017-91	RES,CHIP	47 5% 1/10W	R374	1-216-049-91	RES,CHIP	1K 5% 1/10W
R310	1-216-017-91	RES,CHIP	47 5% 1/10W	R375	1-216-113-00	RES,CHIP	470K 5% 1/10W
R311	1-216-295-00	CONDUCTOR, CHIP	0	R376	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
R314	1-216-033-00	RES,CHIP	220 5% 1/10W	R377	1-216-073-00	RES,CHIP	10K 5% 1/10W
R315	1-216-033-00	RES,CHIP	220 5% 1/10W	R378	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R319	1-216-033-00	RES,CHIP	220 5% 1/10W	R379	1-216-073-00	RES,CHIP	10K 5% 1/10W
R320	1-216-033-00	RES,CHIP	220 5% 1/10W	R380	1-216-089-91	RES,CHIP	47K 5% 1/10W
R321	1-216-395-00	METAL OXIDE	3.3 5% 3W	R381	1-216-097-91	RES,CHIP	100K 5% 1/10W
R322	1-216-077-00	RES,CHIP	15K 5% 1/10W	R386	1-216-295-00	CONDUCTOR, CHIP	0
R323	1-216-025-91	RES,CHIP	100 5% 1/10W	R402	1-249-389-11	CARBON	4.7 5% 1/4W
R324	1-216-025-91	RES,CHIP	100 5% 1/10W	R404	1-216-049-91	RES,CHIP	1K 5% 1/10W
R325	1-216-025-91	RES,CHIP	100 5% 1/10W	R405	1-216-073-00	RES,CHIP	10K 5% 1/10W
R326	1-216-655-11	RES,CHIP	1.5K 0.50% 1/10W	R406	1-216-073-00	RES,CHIP	10K 5% 1/10W
R327	1-216-049-91	RES,CHIP	1K 5% 1/10W	R407	1-216-025-91	RES,CHIP	100 5% 1/10W
R328	1-216-049-91	RES,CHIP	1K 5% 1/10W	R408	1-216-025-91	RES,CHIP	100 5% 1/10W
R329	1-216-113-00	RES,CHIP	470K 5% 1/10W	R409	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R330	1-216-025-91	RES,CHIP	100 5% 1/10W	R410	1-216-049-91	RES,CHIP	1K 5% 1/10W
R331	1-216-025-91	RES,CHIP	100 5% 1/10W	R411	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R332	1-216-035-00	RES,CHIP	270 5% 1/10W	R412	1-216-073-00	RES,CHIP	10K 5% 1/10W
R333	1-208-810-11	RES,CHIP	15K 0.50% 1/10W	R413	1-216-073-00	RES,CHIP	10K 5% 1/10W
R334	1-216-043-91	RES,CHIP	560 5% 1/10W	R414	1-216-049-91	RES,CHIP	1K 5% 1/10W
R335	1-216-033-00	RES,CHIP	220 5% 1/10W	R415	1-216-041-00	RES,CHIP	470 5% 1/10W
R337	1-216-033-00	RES,CHIP	220 5% 1/10W	R416	1-249-389-11	CARBON	4.7 5% 1/4W
R338	1-216-033-00	RES,CHIP	220 5% 1/10W	R417	1-249-402-11	CARBON	56 5% 1/4W
R339	1-216-033-00	RES,CHIP	220 5% 1/10W	R418	1-216-073-00	RES,CHIP	10K 5% 1/10W
R340	1-216-025-91	RES,CHIP	100 5% 1/10W	R419	1-216-689-11	RES,CHIP	39K 5% 1/10W
R342	1-216-025-91	RES,CHIP	100 5% 1/10W	R420	1-216-049-91	RES,CHIP	1K 5% 1/10W
R343	1-216-073-00	RES,CHIP	10K 5% 1/10W	R421	1-216-073-00	RES,CHIP	10K 5% 1/10W
R344	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R423	1-216-079-00	RES,CHIP	18K 5% 1/10W
R345	1-216-109-00	RES,CHIP	330K 5% 1/10W	R426	1-260-324-11	CARBON	470 5% 1/2W
R346	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R428	1-216-033-00	RES,CHIP	220 5% 1/10W
R347	1-216-049-91	RES,CHIP	1K 5% 1/10W	R429	1-216-033-00	RES,CHIP	220 5% 1/10W
R348	1-216-133-00	RES,CHIP	3.3M 5% 1/10W	R430	1-216-295-00	CONDUCTOR, CHIP	0
R349	1-216-049-91	RES,CHIP	1K 5% 1/10W	R431	1-216-295-00	CONDUCTOR, CHIP	0
R350	1-216-049-91	RES,CHIP	1K 5% 1/10W	R432	1-216-081-00	RES,CHIP	22K 5% 1/10W
R351	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R433	1-216-081-00	RES,CHIP	22K 5% 1/10W
R352	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R434	1-216-073-00	RES,CHIP	10K 5% 1/10W
R353	1-216-059-00	RES,CHIP	2.7K 5% 1/10W	R437	1-216-073-00	RES,CHIP	10K 5% 1/10W
R354	1-216-073-00	RES,CHIP	10K 5% 1/10W	R438	1-216-079-00	RES,CHIP	18K 5% 1/10W
R355	1-216-089-91	RES,CHIP	47K 5% 1/10W	R439	1-216-073-00	RES,CHIP	10K 5% 1/10W
R356	1-216-025-91	RES,CHIP	100 5% 1/10W	R441	1-216-089-91	RES,CHIP	47K 5% 1/10W
R357	1-216-049-91	RES,CHIP	1K 5% 1/10W	R442	1-216-041-00	RES,CHIP	470 5% 1/10W
R361	1-216-041-00	RES,CHIP	470 5% 1/10W	R1101	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R362	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1102	1-216-083-00	RES,CHIP	27K 5% 1/10W
R363	1-216-077-00	RES,CHIP	15K 5% 1/10W	R1103	1-216-689-11	RES,CHIP	39K 5% 1/10W
R364	1-208-783-11	RES,CHIP	1.1K 0.50% 1/10W	R1104	1-216-049-91	RES,CHIP	1K 5% 1/10W
R365	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1105	1-216-689-11	RES,CHIP	39K 5% 1/10W
R366	1-216-017-91	RES,CHIP	47 5% 1/10W	R1106	1-216-083-00	RES,CHIP	27K 5% 1/10W
				R1107	1-216-065-91	RES,CHIP	4.7K 5% 1/10W



(KP-48V75K/53V75K)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1108	1-215-900-11	METAL OXIDE 22K	5% 2W	R1524	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1109	1-216-295-00	CONDUCTOR, CHIP	0	R1525	1-208-817-11	RES,CHIP 30K	0.50% 1/10W
R1201	1-216-041-00	RES,CHIP 470	5% 1/10W	R1526	1-208-817-11	RES,CHIP 30K	0.50% 1/10W
R1202	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R1527	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1203	1-216-295-00	CONDUCTOR, CHIP	0	R1528	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1204	1-216-049-91	RES,CHIP 1K	5% 1/10W	R1529	1-216-025-91	RES,CHIP 100	5% 1/10W
R1205	1-216-051-00	RES,CHIP 1.2K	5% 1/10W	R2002	1-216-041-00	RES,CHIP 470	5% 1/10W
R1206	1-216-025-91	RES,CHIP 100	5% 1/10W	R2101	1-216-041-00	RES,CHIP 470	5% 1/10W
R1207	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2102	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R1208	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2103	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1209	1-216-025-91	RES,CHIP 100	5% 1/10W	R2104	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1210	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2105	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1211	1-216-049-91	RES,CHIP 1K	5% 1/10W	R2106	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1212	1-216-033-00	RES,CHIP 220	5% 1/10W	R2108	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1213	1-216-025-91	RES,CHIP 100	5% 1/10W	R2109	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1214	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2110	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R1215	1-216-025-91	RES,CHIP 100	5% 1/10W	R2112	1-216-105-91	RES,CHIP 220K	5% 1/10W
R1216	1-216-051-00	RES,CHIP 1.2K	5% 1/10W	R2113	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1217	1-216-041-00	RES,CHIP 470	5% 1/10W	R2114	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1218	1-216-049-91	RES,CHIP 1K	5% 1/10W	R2115	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R1220	1-216-025-91	RES,CHIP 100	5% 1/10W	R2117	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1221	1-216-025-91	RES,CHIP 100	5% 1/10W	R2118	1-216-025-91	RES,CHIP 100	5% 1/10W
R1223	1-216-033-00	RES,CHIP 220	5% 1/10W	R2201	1-216-077-00	RES,CHIP 15K	5% 1/10W
R1225	1-216-025-91	RES,CHIP 100	5% 1/10W	R2202	1-216-077-00	RES,CHIP 15K	5% 1/10W
R1226	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2203	1-216-081-00	RES,CHIP 22K	5% 1/10W
R1227	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2204	1-216-081-00	RES,CHIP 22K	5% 1/10W
R1228	1-216-025-91	RES,CHIP 100	5% 1/10W	R2205	1-216-049-91	RES,CHIP 1K	5% 1/10W
R1229	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2206	1-208-831-11	RES,CHIP 110K	0.50% 1/10W
R1230	1-216-025-91	RES,CHIP 100	5% 1/10W	R2207	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R1231	1-216-025-91	RES,CHIP 100	5% 1/10W	R2208	1-208-797-11	RES,CHIP 4.3K	0.50% 1/10W
R1232	1-216-025-91	RES,CHIP 100	5% 1/10W	R2209	1-208-825-11	RES,CHIP 62K	0.50% 1/10W
R1233	1-216-041-00	RES,CHIP 470	5% 1/10W	R2210	1-216-085-00	RES,CHIP 33K	5% 1/10W
R1234	1-216-025-91	RES,CHIP 100	5% 1/10W	R2211	1-216-089-91	RES,CHIP 47K	5% 1/10W
R1235	1-216-025-91	RES,CHIP 100	5% 1/10W	R2212	1-216-063-91	RES,CHIP 3.9K	5% 1/10W
R1236	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2213	1-216-049-91	RES,CHIP 1K	5% 1/10W
R1237	1-216-025-91	RES,CHIP 100	5% 1/10W	R2214	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1238	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2215	1-216-049-91	RES,CHIP 1K	5% 1/10W
R1239	1-216-025-91	RES,CHIP 100	5% 1/10W	R2216	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1240	1-216-025-91	RES,CHIP 100	5% 1/10W	R2217	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1241	1-216-049-91	RES,CHIP 1K	5% 1/10W	R2218	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1242	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2219	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1243	1-216-025-91	RES,CHIP 100	5% 1/10W	R2220	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1244	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2221	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1245	1-216-025-91	RES,CHIP 100	5% 1/10W	R2222	1-216-097-91	RES,CHIP 100K	5% 1/10W
R1251	1-216-067-00	RES,CHIP 5.6K	5% 1/10W	R2223	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1501	1-216-351-00	METAL OXIDE 1.5	5% 1W	R2224	1-216-073-00	RES,CHIP 10K	5% 1/10W
R1502	1-208-806-11	RES,CHIP 10K	0.50% 1/10W	R2225	1-260-324-11	CARBON 470	5% 1/2W
R1504	1-208-806-11	RES,CHIP 10K	0.50% 1/10W				
R1506	1-215-888-00	METAL OXIDE 220	5% 2W				
R1507	1-216-081-00	RES,CHIP 22K	5% 1/10W			<RELAY>	
R1508	1-249-383-11	CARBON 1.5	5% 1/4W	RY401	1-755-028-11	RELAY	
R1509	1-208-806-11	RES,CHIP 10K	0.50% 1/10W	RY402	1-755-028-11	RELAY	
R1510	1-208-806-11	RES,CHIP 10K	0.50% 1/10W				
R1511	1-216-057-00	RES,CHIP 2.2K	5% 1/10W			<TERMINAL BOARD>	
R1520	1-216-089-91	RES,CHIP 47K	5% 1/10W				
R1522	1-216-089-91	RES,CHIP 47K	5% 1/10W				
R1523	1-216-073-00	RES,CHIP 10K	5% 1/10W	TB201	1-694-303-11	TERMINAL, PUSH	

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

A

(KP-48V75K/53V75K)

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- The components identified by **■** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK				REF. NO.	PART NO.	DESCRIPTION	REMARK			
<THERMISTOR>							C528	1-107-649-11	ELECT	2.2μF	20%	250V	
TH1501	1-800-193-00	THERMISTOR					C529	1-109-961-11	FILM	0.75μF	5%	200V	
							C530	1-110-626-11	ELECT	330μF	20%	160V	
							<TUNER>						
TU1101	8-598-426-00	TUNER, FSS BTF-WL401					C531	1-126-971-11	ELECT	470μF	20%	50V	
	TU1102	8-598-339-00					TUNER, FSS BTF-LA402	C532	1-126-971-11	ELECT	470μF	20%	50V
							C533	1-128-562-11	ELECT	47μF	20%	100V	
							C535	1-106-387-00	MYLAR	0.068μF	5%	200V	
							C536	1-130-489-00	MYLAR	0.033μF	5%	50V	
<CRYSTAL>							C537	1-104-665-11	ELECT	100μF	20%	25V	
X001	1-577-358-21	VIBRATOR, CERAMIC					C538	1-104-665-11	ELECT	100μF	20%	25V	
	X002	1-578-774-11					VIBRATOR, CRYSTAL	C539	1-162-114-00	CERAMIC	0.0047μF		2KV
X301	1-567-505-11	OSCILLATOR, CRYSTAL					C540	1-130-487-00	MYLAR	0.022μF	5%	50V	
X304	1-577-611-11	OSCILALTOR, CERAMIC					C541	1-130-489-00	MYLAR	0.033μF	5%	50V	
*****							C542	1-104-666-11	ELECT	220μF	20%	25V	
							C544	1-104-665-11	ELECT	100μF	20%	25V	
							C545	1-104-665-11	ELECT	100μF	20%	25V	
							C546	1-107-637-11	ELECT	22μF	20%	160V	
							C548	1-102-244-00	CERAMIC	220PF	10%	500V	
* A-1316-392-A G BOARD, COMPLETE (KP-41T65K)							C550	1-126-935-11	ELECT	470μF	20%	16V	
*****							C551	1-126-935-11	ELECT	470μF	20%	16V	
* A-1316-419-A G BOARD, COMPLETE (KP-53V75K)							C554	1-129-702-00	FILM	0.001μF	5%	630V	
*****							C555	1-126-960-11	ELECT	1μF	20%	50V	
* A-1316-424-A G BOARD, COMPLETE (KP-48V75K)							C556	1-130-495-00	MYLAR	0.1μF	5%	50V	
*****							C603	1-104-330-91	CERAMIC	470PF	10%	1KV	
* A-1316-425-A G BOARD, COMPLETE (KP-41T65T)							C604	1-126-971-11	ELECT	470μF	20%	50V	
*****							C605	1-113-907-51	CERAMIC	0.0022μF	20%	250V	
* A-1316-426-A G BOARD, COMPLETE (KP-53S65T)							(KP-41T65K/53V75K)						
*****							C606	1-113-907-51	CERAMIC	0.0022μF	20%	250V	
* 4-039-590-01 SHIELD, TRANSFORMER							C607	1-125-692-11	ELECT(BLOCK)	820μF	20%	200V	
* 4-057-835-01 PLATE, TRANSFORMER SHIELD							C608	1-125-692-11	ELECT(BLOCK)	820μF	20%	200V	
4-382-854-11 SCREW (M3X10), P, SW (+)							C612	1-164-646-11	CERAMIC	2200PF	10%	500V	
4-382-854-51 SCREW (M3X8), P, SW (+)							C615	1-137-194-81	FILM	0.47μF	5%	50V	
7-682-952-09 SCREW +PSW 3X16							C616	1-137-194-81	FILM	0.47μF	5%	50V	
<CAPACITOR>							C617	1-136-169-00	FILM	0.22μF	5%	50V	
C502	1-126-959-11	ELECT	0.47μF	20%	50V	C618	1-136-169-00	FILM	0.22μF	5%	50V		
C504	1-102-116-00	CERAMIC	680PF	10%	50V	C621	1-129-719-00	FILM	0.027μF	5%	630V		
C505	1-130-471-00	MYLAR	0.001μF	5%	50V	C651	1-107-910-11	ELECT	100μF	20%	35V		
C506	1-126-933-11	ELECT	100μF	20%	16V	C652	1-123-024-21	ELECT	33μF		160V		
C507	1-126-965-11	ELECT	22μF	20%	50V	C653	1-115-755-11	ELECT	180μF	20%	16V		
C508	1-102-212-00	CERAMIC	820PF	10%	500V	C654	1-115-755-11	ELECT	180μF	20%	16V		
C509	1-106-383-00	MYLAR	0.047μF	10%	200V	C655	1-126-943-11	ELECT	2200μF	20%	25V		
C510	1-102-002-00	CERAMIC	680PF	10%	500V	C656	1-126-943-11	ELECT	2200μF	20%	25V		
C511	1-130-475-00	MYLAR	0.0022μF	5%	50V	C657	1-126-943-11	ELECT	2200μF	20%	25V		
C512	1-136-479-11	FILM	0.001μF	5%	50V	C658	1-128-550-11	ELECT	2200μF	20%	50V		
C513	1-126-965-11	ELECT	22μF	20%	50V	C659	1-102-074-00	CERAMIC	0.001μF	10%	50V		
✖C514	△	CERAMIC			2KV	C660	1-126-235-11	ELECT	100μF	20%	6.3V		
C515	△	1-125-831-91	FILM	0.033μF	3%	630V	C661	1-102-074-00	CERAMIC	0.001μF	10%	50V	
C516	△	1-117-807-11	FILM	14500PF	3%	1.6KV	C662	1-104-664-11	ELECT	47μF	20%	25V	
C518	1-130-495-00	MYLAR	0.1μF	5%	50V	C663	1-104-664-11	ELECT	47μF	20%	25V		
C519	1-136-287-11	FILM	0.0047μF	5%	100V	C664	1-104-664-11	ELECT	47μF	20%	25V		
C520	1-162-116-00	CERAMIC	680PF	10%	2KV	C665	1-104-666-11	ELECT	220μF	20%	25V		
C521	1-162-116-00	CERAMIC	680PF	10%	2KV	C666	1-126-960-11	ELECT	1μF	20%	50V		
C523	1-117-673-11	FILM	1.5μF	5%	200V	C667	1-104-664-11	ELECT	47μF	20%	25V		
C524	1-136-287-11	FILM	0.0047μF	5%	100V	C668	1-126-933-11	ELECT	100μF	20%	16V		
C526	1-102-228-00	CERAMIC	470PF	10%	500V	C671	1-126-935-11	ELECT	470μF	20%	16V		
C527	1-104-664-11	ELECT	47μF	20%	25V	C673	1-162-115-00	CERAMIC	330PF	10%	1KV		



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C675	1-104-665-11	ELECT	100μF 20% 25V	C863	1-137-374-11	FILM	0.047μF 5% 50V
C676	1-126-960-11	ELECT	1μF 20% 50V	C864	1-126-933-11	ELECT	100μF 20% 16V
C801	1-104-665-11	ELECT	100μF 20% 25V	C865	1-130-471-00	MYLAR	0.001μF 5% 50V
C802	1-104-665-11	ELECT	100μF 20% 25V	C866	1-136-177-00	FILM	1μF 5% 50V
C803	1-126-934-11	ELECT	220μF 20% 16V	C867	1-101-880-00	CERAMIC	47PF 5% 50V
C804	1-126-934-11	ELECT	220μF 20% 16V	C868	1-101-880-00	CERAMIC	47PF 5% 50V
C805	1-126-934-11	ELECT	220μF 20% 16V	C869	1-130-487-00	MYLAR	0.022μF 5% 50V
C806	1-126-934-11	ELECT	220μF 20% 16V	C870	1-164-096-11	CERAMIC	0.01μF 50V
C807	1-137-374-11	FILM	0.047μF 5% 50V	C871	1-101-880-00	CERAMIC	47PF 5% 50V
C808	1-137-374-11	FILM	0.047μF 5% 50V	C872	1-101-880-00	CERAMIC	47PF 5% 50V
C809	1-137-374-11	FILM	0.047μF 5% 50V	C873	1-101-880-00	CERAMIC	47PF 5% 50V
C810	1-137-374-11	FILM	0.047μF 5% 50V	C880	1-126-961-11	ELECT	2.2μF 20% 50V
C811	1-137-366-11	FILM	0.0022μF 5% 50V	C881	1-102-973-00	CERAMIC	100PF 5% 50V
C812	1-136-169-00	FILM	0.22μF 5% 50V	C882	1-102-973-00	CERAMIC	100PF 5% 50V
C813	1-137-374-11	FILM	0.047μF 5% 50V	C883	1-102-973-00	CERAMIC	100PF 5% 50V
C815	1-126-941-11	ELECT	470μF 20% 25V	C885	1-126-961-11	ELECT	2.2μF 20% 50V
C816	1-126-964-11	ELECT	10μF 20% 50V	C886	1-102-973-00	CERAMIC	100PF 5% 50V
C817	1-164-096-11	CERAMIC	0.01μF 50V	C887	1-102-973-00	CERAMIC	100PF 5% 50V
C818	1-126-933-11	ELECT	100μF 20% 16V	C888	1-102-973-00	CERAMIC	100PF 5% 50V
C819	1-126-964-11	ELECT	10μF 20% 50V	C889	1-126-941-11	ELECT	470μF 20% 25V
C820	1-102-114-00	CERAMIC	470PF 10% 50V	C897	1-126-941-11	ELECT	470μF 20% 25V
C821	1-130-495-00	MYLAR	0.1μF 5% 50V				
C822	1-164-096-11	CERAMIC	0.01μF 50V			<CONNECTOR>	
C823	1-101-880-00	CERAMIC	47PF 5% 50V	CN501	1-564-513-11	PLUG, CONNECTOR 10P	
C825	1-104-665-11	ELECT	100μF 20% 25V	CN502	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C826	1-136-165-00	FILM	0.1μF 5% 50V	CN503	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C827	1-126-960-11	ELECT	1μF 20% 50V	CN504	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C828	1-137-366-11	FILM	0.0022μF 5% 50V	CN505	* 1-506-371-00	PIN, CONNECTOR 2P	
C829	1-126-959-11	ELECT	0.47μF 20% 50V	CN506	* 1-774-182-11	CONNECTOR, BOARD TO BOARD10P	
C830	1-136-356-11	FILM	470PF 5% 50V	CN507	* 1-564-507-11	PLUG, CONNECTOR 4P	
C831	1-126-960-11	ELECT	1μF 20% 50V	CN601	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
C832	1-126-960-11	ELECT	1μF 20% 50V	CN602	1-695-915-11	TAB (CONTACT)	
C833	1-126-960-11	ELECT	1μF 20% 50V	CN651	* 1-774-182-11	CONNECTOR, BOARD TO BOARD10P	
C834	1-104-665-11	ELECT	100μF 20% 25V	CN652	* 1-774-182-11	CONNECTOR, BOARD TO BOARD10P	
C836	1-136-169-00	FILM	0.22μF 5% 50V	CN653	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
C837	1-126-963-11	ELECT	4.7μF 20% 50V	CN801	* 1-564-507-11	PLUG, CONNECTOR 4P	
C838	1-104-665-11	ELECT	100μF 20% 25V	CN802	* 1-564-507-11	PLUG, CONNECTOR 4P	
C839	1-137-374-11	FILM	0.047μF 5% 50V	CN803	* 1-564-507-11	PLUG, CONNECTOR 4P	
C840	1-104-665-11	ELECT	100μF 20% 25V	CN804	* 1-774-182-11	CONNECTOR, BOARD TO BOARD10P	
C841	1-137-374-11	FILM	0.047μF 5% 50V	CN805	* 1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	
C842	1-137-374-11	FILM	0.047μF 5% 50V				
C843	1-104-665-11	ELECT	100μF 20% 25V			<DIODE>	
C844	1-126-933-11	ELECT	100μF 20% 16V	D501	8-719-991-33	DIODE 1SS133T-77	
C845	1-126-933-11	ELECT	100μF 20% 16V	D502	8-719-991-33	DIODE 1SS133T-77	
C846	1-126-933-11	ELECT	100μF 20% 16V	D503	8-719-018-82	DIODE RGP02-20EL-6394	
C847	1-126-933-11	ELECT	100μF 20% 16V	D504	8-719-921-63	DIODE MTZJ-7.5B	
C848	1-126-933-11	ELECT	100μF 20% 16V	D507	8-719-302-43	DIODE EL1Z	
C851	1-137-374-11	FILM	0.047μF 5% 50V	D508	8-719-900-26	DIODE ERD29-08J	
C852	1-137-374-11	FILM	0.047μF 5% 50V	D509	8-719-945-80	DIODE ERC06-15S	
C853	1-137-374-11	FILM	0.047μF 5% 50V	D510	8-719-945-80	DIODE ERC06-15S	
C854	1-126-933-11	ELECT	100μF 20% 16V	D511	8-719-302-43	DIODE EL1Z	
C856	1-164-096-11	CERAMIC	0.01μF 50V	D513	8-719-302-43	DIODE EL1Z	
C857	1-126-933-11	ELECT	100μF 20% 16V	D514	8-719-908-03	DIODE GP08D	
C858	1-126-941-11	ELECT	470μF 20% 25V	D515	8-719-908-03	DIODE GP08D	
C860	1-126-933-11	ELECT	100μF 20% 16V				
C861	1-137-374-11	FILM	0.047μF 5% 50V				
C862	1-137-374-11	FILM	0.047μF 5% 50V				

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K



The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D517	8-719-018-82	DIODE RGP02-20EL-6394		FB652	1-410-396-41	FERRITE	0.45μH
D519	8-719-991-33	DIODE 1SS133T-77		FB653	1-410-396-41	FERRITE	0.45μH
D520	8-719-302-43	DIODE EL1Z		FB654	1-410-397-21	FERRITE	1.1μH
D521	8-719-302-43	DIODE EL1Z		FB655	1-410-396-41	FERRITE	0.45μH
D524	8-719-991-33	DIODE 1SS133T-77					(KP-41T65K/41T65T/53S65T)
D527	8-719-109-85	DIODE RD5.1ESB2		FB656	1-410-396-41	FERRITE	0.45μH
D528	8-719-923-86	DIODE MTZJ-T-77-15		FB657	1-410-396-41	FERRITE	0.45μH
D601	8-719-200-82	DIODE 11ES2		FB660	1-412-761-11	FERRITE	0μH
D602	\triangle 8-719-052-84	DIODE LN4SBB60		FB661	1-412-761-11	FERRITE	0μH
D603	8-719-200-82	DIODE 11ES2					
D604	8-719-110-22	DIODE RD11ESB2				<IC>	
D605	8-719-923-83	DIODE MTZJ-T-77-13A		IC501	8-759-133-90	IC UPC339C	
D651	8-719-510-26	DIODE D1NL20-TA		IC601	\triangle 8-729-041-12	TRANSISTOR MX0841AB-F	
D652	8-719-991-33	DIODE 1SS133T-77		IC651	\triangle 8-749-012-13	IC DM-58	
D653	8-719-510-02	DIODE D1NS4		IC652	8-759-012-67	IC MC7905CT	
D654	8-719-022-97	DIODE D2S4μF		IC653	8-759-231-53	IC TA7805S	
D655	8-719-061-56	DIODE RBA-402LLF-A		IC654	8-759-231-53	IC TA7805S	
D656	8-719-052-92	DIODE D10SBS4F		IC801	8-759-327-51	IC PA0053B	
D657	8-719-052-91	DIODE D4SBS4-F		IC802	8-759-327-51	IC PA0053B	
D658	8-719-510-12	DIODE D10SC4M		IC803	8-759-183-37	IC CA0007AD	
D660	8-719-991-33	DIODE 1SS133T-77		IC804	8-759-464-79	IC PM0011AS	
D661	8-719-200-82	DIODE 11ES2		IC805	8-759-711-28	IC NJM2058D	
D662	8-719-991-33	DIODE 1SS133T-77		IC806	8-759-464-79	IC PM0011AS	
D664	8-719-110-61	DIODE RD24ESB1		IC808	8-759-464-79	IC PM0011AS	
D669	8-719-991-33	DIODE 1SS133T-77		IC809	8-749-014-37	IC STK392-150	
D670	8-719-923-86	DIODE MTZJ-T-77-15		IC810	8-749-014-37	IC STK392-150	
D691	8-719-200-82	DIODE 11ES2		IC811	8-759-634-51	IC M5218AP	
D692	8-719-200-82	DIODE 11ES2				<COIL>	
D801	8-719-110-17	DIODE RD10ESB2		L502	1-410-478-11	INDUCTOR	47μH
D802	8-719-110-17	DIODE RD10ESB2		L503	1-459-111-00	INDUCTOR	0μH
D803	8-719-110-17	DIODE RD10ESB2		L506	1-412-552-11	INDUCTOR	2.2mmH
D804	8-719-110-17	DIODE RD10ESB2		L509	1-412-533-21	INDUCTOR	47μH
D809	8-719-991-33	DIODE 1SS133T-77		L651	1-414-158-11	INDUCTOR	2.2μH
D810	8-719-991-33	DIODE 1SS133T-77		L652	1-414-158-11	INDUCTOR	2.2μH
D820	8-719-109-68	DIODE RD3.6ESB1		L653	1-414-158-11	INDUCTOR	2.2μH
D828	8-719-109-89	DIODE RD5.6ESB2		L654	1-414-158-11	INDUCTOR	2.2μH
D829	8-719-109-85	DIODE RD5.1ESB2		L656	1-412-523-11	INDUCTOR	6.8μH
D835	8-719-109-89	DIODE RD5.6ESB2		L801	1-406-975-21	INDUCTOR	0μH
D840	8-719-991-33	DIODE 1SS133T-77		L802	1-406-975-21	INDUCTOR	0μH
D842	8-719-991-33	DIODE 1SS133T-77				<NEON LAMP>	
D845	8-719-991-33	DIODE 1SS133T-77		NL501	1-517-778-21	LAMP, NEON	
D846	8-719-991-33	DIODE 1SS133T-77		NL502	1-517-778-21	LAMP, NEON	
D847	8-719-982-19	DIODE MTZJ-30A		NL503	1-517-778-21	LAMP, NEON	
D848	8-719-923-86	DIODE MTZJ-T-77-15		NL504	1-517-778-21	LAMP, NEON	
D849	8-719-110-22	DIODE RD11ESB2		NL505	1-517-778-21	LAMP, NEON	
D850	8-719-109-89	DIODE RD5.6ESB2				<IC LINK>	
D852	8-719-923-86	DIODE MTZJ-T-77-15		PS601	\triangle 1-533-597-31	LINK, IC	
D853	8-719-982-19	DIODE MTZJ-30A		PS602	\triangle 1-533-597-31	LINK, IC	
D854	8-719-982-19	DIODE MTZJ-30A					
D855	8-719-982-19	DIODE MTZJ-30A					
D857	8-719-982-19	DIODE MTZJ-30A					
D860	8-719-982-19	DIODE MTZJ-30A					
		<FERRITE BEAD>					
FB501	1-410-397-21	FERRITE	1.1μH				
FB651	1-410-396-41	FERRITE	0.45μH				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

• The components identified by \blacktriangle in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>							
Q501	8-729-119-80	TRANSISTOR 2SC2688-LK		R532	1-260-314-11	CARBON	68 5% 1/2W
Q502	8-729-024-05	TRANSISTOR 2SD2348(LBSONY-1)		R533	1-214-912-00	METAL	91K 1% 1/2W
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE		R534	1-215-479-00	METAL	270K 1% 1/4W
Q504	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R535	1-247-887-00	CARBON	220K 5% 1/4W
Q505	8-729-931-45	TRANSISTOR IRF614		R536	1-260-288-11	CARBON	0.47 5% 1/2W
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE		R537	1-260-336-11	CARBON	4.7K 5% 1/2W
Q507	8-729-032-61	TRANSISTOR 2SC5022-02		R538	1-247-863-91	CARBON	22K 5% 1/4W
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE		R539	1-249-377-11	CARBON	0.47 5% 1/4W
Q602	8-729-209-15	TRANSISTOR 2SD2012		R540	1-249-379-11	CARBON	0.68 5% 1/4W
Q651	8-729-119-76	TRANSISTOR 2SA1175-HFE		(EXCEPT KP-53V75K)			
Q652	8-729-119-78	TRANSISTOR 2SC2785-HFE		R540	1-249-377-11	CARBON	0.47 5% 1/4W
Q653	8-729-119-78	TRANSISTOR 2SC2785-HFE		(KP-53V75K)			
Q654	8-729-119-76	TRANSISTOR 2SA1175-HFE		R541	1-260-087-11	CARBON	100 5% 1/2W
Q655	8-729-119-76	TRANSISTOR 2SA1175-HFE		R542	1-215-862-11	METAL OXIDE	68 5% 1W
Q656	8-729-119-78	TRANSISTOR 2SC2785-HFE		(KP-41T65K/41T65T/48V75K)			
Q657	8-729-119-76	TRANSISTOR 2SA1175-HFE		R542	1-215-864-00	METAL OXIDE	150 5% 1W
Q658	8-729-119-78	TRANSISTOR 2SC2785-HFE		(KP-53V75K/53S65T)			
Q659	8-729-119-76	TRANSISTOR 2SA1175-HFE		R543	1-216-349-00	METAL OXIDE	1 5% 1W
Q660	8-729-119-78	TRANSISTOR 2SC2785-HFE		R544	1-215-862-11	METAL OXIDE	68 5% 1W
Q661	8-729-119-78	TRANSISTOR 2SC2785-HFE		(KP-41T65K/41T65T/48V75K)			
Q662	8-729-119-78	TRANSISTOR 2SC2785-HFE		R544	1-215-864-00	METAL OXIDE	150 5% 1W
Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE		(KP-53V75K/53S65T)			
Q803	8-729-119-76	TRANSISTOR 2SA1175-HFE		R545	1-249-377-11	CARBON	0.47 5% 1/4W
Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE		R546	1-249-377-11	CARBON	0.47 5% 1/4W
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE		R547	1-247-807-31	CARBON	100 5% 1/4W
Q809	8-729-119-78	TRANSISTOR 2SC2785-HFE		R548	1-249-413-11	CARBON	470 5% 1/4W
Q810	8-729-119-78	TRANSISTOR 2SC2785-HFE		R549	1-247-863-91	CARBON	22K 5% 1/4W
<RESISTOR>				R550	1-247-807-31	CARBON	100 5% 1/4W
R501	1-249-421-11	CARBON	2.2K 5% 1/4W	R551	1-249-437-11	CARBON	47K 5% 1/4W
R502	1-215-879-11	METAL OXIDE	47K 5% 1W	R552	1-247-807-31	CARBON	100 5% 1/4W
R503	1-247-843-11	CARBON	3.3K 5% 1/4W	R553	1-247-881-00	CARBON	120K 5% 1/4W
R504	1-249-419-11	CARBON	1.5K 5% 1/4W	R554	1-249-405-11	CARBON	100 5% 1/4W
R505	1-247-895-91	CARBON	470K 5% 1/4W	R555	1-260-117-11	CARBON	33K 5% 1/2W
R506	1-249-429-11	CARBON	10K 5% 1/4W	R556	1-260-117-11	CARBON	33K 5% 1/2W
R507	1-249-422-11	CARBON	2.7K 5% 1/4W	R557	1-216-490-11	METAL OXIDE	39K 5% 3W
R508	1-260-337-11	CARBON	5.6K 5% 1/2W	R558	1-216-490-11	METAL OXIDE	39K 5% 3W
R509	1-249-437-11	CARBON	47K 5% 1/4W	R559	1-216-490-11	METAL OXIDE	39K 5% 3W
R510	1-215-919-11	METAL OXIDE	2.2K 5% 3W	R560	1-215-399-00	METAL	120 1% 1/4W
R511	1-215-919-11	METAL OXIDE	2.2K 5% 3W	\blacktriangle R561 Δ	METAL		1/4W
R512	1-216-482-11	METAL OXIDE	1.8K 5% 3W	R563	1-249-429-11	CARBON	10K 5% 1/4W
R513	1-249-424-11	CARBON	3.9K 5% 1/4W	R564	1-260-131-11	CARBON	470K 5% 1/2W
\blacktriangle R514 Δ	METAL		1/4W	R565	1-260-087-11	CARBON	100 5% 1/2W
R516	1-215-443-00	METAL	8.2K 1% 1/4W	R566	1-249-377-11	CARBON	0.47 5% 1/4W
R517	1-215-449-00	METAL	15K 1% 1/4W	R567	1-249-377-11	CARBON	0.47 5% 1/4W
R518	1-215-456-00	METAL	30K 1% 1/4W	R568	1-247-903-00	CARBON	1M 5% 1/4W
R519	1-247-863-91	CARBON	22K 5% 1/4W	R569	1-216-389-11	METAL OXIDE	1 5% 3W
R522	1-249-428-11	CARBON	8.2K 5% 1/4W	(KP-53V75K)			
R523	1-249-437-11	CARBON	47K 5% 1/4W	R569	1-216-392-11	METAL OXIDE	1.8 5% 3W
R524	1-247-863-91	CARBON	22K 5% 1/4W	(EXCEPT KP-53V75K)			
R525	1-249-405-11	CARBON	100 5% 1/4W	R570	1-215-910-00	METAL OXIDE	68 5% 3W
R528	1-215-910-00	METAL OXIDE	68 5% 3W	R571	1-249-422-11	CARBON	2.7K 5% 1/4W
R530	1-249-437-11	CARBON	47K 5% 1/4W	R572	1-247-895-91	CARBON	470K 5% 1/4W
R531	1-215-868-00	METAL OXIDE	680 5% 1W	R573	1-249-430-11	CARBON	12K 5% 1/4W
				R574	1-249-429-11	CARBON	10K 5% 1/4W
				R577	1-249-422-11	CARBON	2.7K 5% 1/4W
				R579	1-247-895-91	CARBON	470K 5% 1/4W
				R580	1-247-863-91	CARBON	22K 5% 1/4W
				R581	1-249-428-11	CARBON	8.2K 5% 1/4W
				R583	1-249-428-11	CARBON	8.2K 5% 1/4W

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K




The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
R584	1-247-887-00	CARBON	220K	5%	1/4W	R806	1-249-429-11	CARBON	10K	5%	1/4W
R585	1-216-490-11	METAL OXIDE	39K	5%	3W	R807	1-247-807-31	CARBON	100	5%	1/4W
R586	1-260-292-11	CARBON	1	5%	1/2W	R808	1-249-429-11	CARBON	10K	5%	1/4W
R588	1-247-863-91	CARBON	22K	5%	1/4W	R809	1-249-425-11	CARBON	4.7K	5%	1/4W
R589	1-247-887-00	CARBON	220K	5%	1/4W	R810	1-247-807-31	CARBON	100	5%	1/4W
R591	1-215-917-11	METAL OXIDE	1K	5%	3W	R811	1-247-807-31	CARBON	100	5%	1/4W
R608	Δ 1-202-933-61	FUSIBLE	0.1	10%	1/2W	R812	1-249-429-11	CARBON	10K	5%	1/4W
R609	1-247-887-00	CARBON	220K	5%	1/4W	R813	1-249-429-11	CARBON	10K	5%	1/4W
R610	1-247-887-00	CARBON	220K	5%	1/4W	R814	1-247-807-31	CARBON	100	5%	1/4W
R611	1-216-353-00	METAL OXIDE	2.2	5%	1W	R815	1-247-807-31	CARBON	100	5%	1/4W
R612	1-247-887-00	CARBON	220K	5%	1/4W	R816	1-247-807-31	CARBON	100	5%	1/4W
R613	1-216-353-00	METAL OXIDE	2.2	5%	1W	R817	1-247-807-31	CARBON	100	5%	1/4W
R614	1-247-887-00	CARBON	220K	5%	1/4W	R818	1-249-430-11	CARBON	12K	5%	1/4W
R615	1-249-425-11	CARBON	4.7K	5%	1/4W	R820	1-249-429-11	CARBON	10K	5%	1/4W
R616	1-249-421-11	CARBON	2.2K	5%	1/4W	R821	1-249-428-11	CARBON	8.2K	5%	1/4W
R617	1-249-421-11	CARBON	2.2K	5%	1/4W	R822	1-249-417-11	CARBON	1K	5%	1/4W
R618	1-249-389-11	CARBON	4.7	5%	1/4W	R823	1-249-417-11	CARBON	1K	5%	1/4W
R651	1-249-429-11	CARBON	10K	5%	1/4W	R824	1-215-462-00	METAL	51K	1%	1/4W
R653	1-249-377-11	CARBON	0.47	5%	1/4W	R825	1-249-441-11	CARBON	100K	5%	1/4W
R655	1-247-887-00	CARBON	220K	5%	1/4W	R826	1-215-462-00	METAL	51K	1%	1/4W
R656	1-260-288-11	CARBON	0.47	5%	1/2W	R827	1-249-417-11	CARBON	1K	5%	1/4W
R657	1-249-429-11	CARBON	10K	5%	1/4W	R828	1-249-426-11	CARBON	5.6K	5%	1/4W
R658	1-249-417-11	CARBON	1K	5%	1/4W	R829	1-249-426-11	CARBON	5.6K	5%	1/4W
R660	1-249-413-11	CARBON	470	5%	1/4W	R830	1-249-414-11	CARBON	560	5%	1/4W
R661	1-249-417-11	CARBON	1K	5%	1/4W	R831	1-249-414-11	CARBON	560	5%	1/4W
R662	1-249-425-11	CARBON	4.7K	5%	1/4W	R832	1-249-441-11	CARBON	100K	5%	1/4W
R664	1-249-425-11	CARBON	4.7K	5%	1/4W	R833	1-249-417-11	CARBON	1K	5%	1/4W
R665	1-247-807-31	CARBON	100	5%	1/4W	R834	1-249-441-11	CARBON	100K	5%	1/4W
R667	1-249-417-11	CARBON	1K	5%	1/4W	R835	1-249-441-11	CARBON	100K	5%	1/4W
R668	1-249-377-11	CARBON	0.47	5%	1/4W	R836	1-247-807-31	CARBON	100	5%	1/4W
R669	1-249-429-11	CARBON	10K	5%	1/4W	R837	1-249-441-11	CARBON	100K	5%	1/4W
R672	1-249-421-11	CARBON	2.2K	5%	1/4W	R838	1-249-421-11	CARBON	2.2K	5%	1/4W
R673	1-249-413-11	CARBON	470	5%	1/4W	R841	1-247-815-91	CARBON	220	5%	1/4W
R675	1-215-417-00	METAL	680	1%	1/4W	R842	1-247-807-31	CARBON	100	5%	1/4W
R676	1-216-369-00	METAL OXIDE	1	5%	2W	R843	1-247-807-31	CARBON	100	5%	1/4W
R677	1-247-807-31	CARBON	100	5%	1/4W	R844	1-247-807-31	CARBON	100	5%	1/4W
R679	1-249-421-11	CARBON	2.2K	5%	1/4W	R845	1-249-441-11	CARBON	100K	5%	1/4W
R680	1-249-417-11	CARBON	1K	5%	1/4W	R846	1-247-807-31	CARBON	100	5%	1/4W
R681	1-249-417-11	CARBON	1K	5%	1/4W	R847	1-215-469-00	METAL	100K	1%	1/4W
R682	1-249-417-11	CARBON	1K	5%	1/4W	R850	1-215-469-00	METAL	100K	1%	1/4W
R683	1-249-417-11	CARBON	1K	5%	1/4W	R851	1-247-807-31	CARBON	100	5%	1/4W
R684	1-249-417-11	CARBON	1K	5%	1/4W	R852	1-247-807-31	CARBON	100	5%	1/4W
R686	1-215-421-00	METAL	1K	1%	1/4W	R853	1-247-887-00	CARBON	220K	5%	1/4W
R687	1-215-441-00	METAL	6.8K	1%	1/4W	R854	1-249-429-11	CARBON	10K	5%	1/4W
R688	1-215-481-00	METAL	330K	1%	1/4W	R855	1-247-815-91	CARBON	220	5%	1/4W
R689	1-249-425-11	CARBON	4.7K	5%	1/4W	R856	1-247-807-31	CARBON	100	5%	1/4W
R690	1-249-417-11	CARBON	1K	5%	1/4W	R857	1-247-807-31	CARBON	100	5%	1/4W
R692	1-249-425-11	CARBON	4.7K	5%	1/4W	R858	1-215-455-00	METAL	27K	1%	1/4W
R693	1-249-429-11	CARBON	10K	5%	1/4W	R859	1-215-455-00	METAL	27K	1%	1/4W
R695	1-247-807-31	CARBON	100	5%	1/4W	R860	1-215-455-00	METAL	27K	1%	1/4W
R696	1-249-417-11	CARBON	1K	5%	1/4W	R861	1-215-455-00	METAL	27K	1%	1/4W
R697	1-249-417-11	CARBON	1K	5%	1/4W	R862	1-215-455-00	METAL	27K	1%	1/4W
R801	1-249-437-11	CARBON	47K	5%	1/4W	R863	1-215-455-00	METAL	27K	1%	1/4W
R803	1-249-430-11	CARBON	12K	5%	1/4W	R865	1-249-424-11	CARBON	3.9K	5%	1/4W
R804	1-249-429-11	CARBON	10K	5%	1/4W	R867	1-215-461-00	METAL	47K	1%	1/4W
R805	1-247-807-31	CARBON	100	5%	1/4W	R868	1-215-445-00	METAL	10K	1%	1/4W



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R869	1-249-425-11	CARBON	4.7K 5% 1/4W	R933	1-215-453-00	METAL	22K 1% 1/4W
R871	1-249-417-11	CARBON	1K 5% 1/4W	R934	1-249-429-11	CARBON	10K 5% 1/4W
R872	1-249-425-11	CARBON	4.7K 5% 1/4W	R935	1-249-429-11	CARBON	10K 5% 1/4W
R873	1-247-807-31	CARBON	100 5% 1/4W				
R874	1-249-429-11	CARBON	10K 5% 1/4W	R936	1-249-429-11	CARBON	10K 5% 1/4W
R875	1-249-441-11	CARBON	100K 5% 1/4W	R937	1-249-435-11	CARBON	33K 5% 1/4W
R876	1-215-451-00	METAL	18K 1% 1/4W	R938	1-215-421-00	METAL	1K 1% 1/4W
R879	1-215-444-00	METAL	9.1K 1% 1/4W	R940	1-249-441-11	CARBON	100K 5% 1/4W
R881	1-249-408-11	CARBON	180 5% 1/4W	R941	1-249-441-11	CARBON	100K 5% 1/4W
R882	1-215-445-00	METAL	10K 1% 1/4W	R942	1-249-421-11	CARBON	2.2K 5% 1/4W
R883	1-215-445-00	METAL	10K 1% 1/4W	R943	1-249-441-11	CARBON	100K 5% 1/4W
R884	1-215-445-00	METAL	10K 1% 1/4W	R944	1-215-421-00	METAL	1K 1% 1/4W
R885	1-249-441-11	CARBON	100K 5% 1/4W	R945	1-249-429-11	CARBON	10K 5% 1/4W
R886	1-249-428-11	CARBON	8.2K 5% 1/4W	R946	1-215-421-00	METAL	1K 1% 1/4W
R887	1-247-807-31	CARBON	100 5% 1/4W	R947	1-249-441-11	CARBON	100K 5% 1/4W
R888	1-247-807-31	CARBON	100 5% 1/4W	R948	1-247-815-91	CARBON	220 5% 1/4W
R889	1-249-438-11	CARBON	56K 5% 1/4W	R949	1-247-807-31	CARBON	100 5% 1/4W
R890	1-249-441-11	CARBON	100K 5% 1/4W	R950	1-247-807-31	CARBON	100 5% 1/4W
R891	1-249-429-11	CARBON	10K 5% 1/4W	R951	1-247-807-31	CARBON	100 5% 1/4W
R892	1-215-445-00	METAL	10K 1% 1/4W	R952	1-247-807-31	CARBON	100 5% 1/4W
R895	1-249-421-11	CARBON	2.2K 5% 1/4W	R953	1-247-863-91	CARBON	22K 5% 1/4W
R896	1-249-441-11	CARBON	100K 5% 1/4W	R954	1-215-433-00	METAL	3.3K 1% 1/4W
R897	1-247-807-31	CARBON	100 5% 1/4W	R955	1-215-433-00	METAL	3.3K 1% 1/4W
R898	1-247-815-91	CARBON	220 5% 1/4W	R956	1-249-429-11	CARBON	10K 5% 1/4W
R899	1-247-815-91	CARBON	220 5% 1/4W	R957	1-214-800-11	METAL	2.2 1% 1/2W
R901	1-249-430-11	CARBON	12K 5% 1/4W	R958	1-214-800-11	METAL	2.2 1% 1/2W
R902	1-249-438-11	CARBON	56K 5% 1/4W	R959	1-215-433-00	METAL	3.3K 1% 1/4W
R903	1-215-421-00	METAL	1K 1% 1/4W	R960	1-215-451-00	METAL	18K 1% 1/4W
R904	1-214-800-11	METAL	2.2 1% 1/2W	R961	1-249-425-11	CARBON	4.7K 5% 1/4W
R905	1-214-800-11	METAL	2.2 1% 1/2W	R962	1-214-800-11	METAL	2.2 1% 1/2W
R906	1-214-800-11	METAL	2.2 1% 1/2W	R963	1-214-800-11	METAL	2.2 1% 1/2W
R907	1-247-815-91	CARBON	220 5% 1/4W	R964	1-215-433-00	METAL	3.3K 1% 1/4W
R908	1-247-815-91	CARBON	220 5% 1/4W	R965	1-215-433-00	METAL	3.3K 1% 1/4W
R909	1-215-421-00	METAL	1K 1% 1/4W	R966	1-247-815-91	CARBON	220 5% 1/4W
R910	1-215-421-00	METAL	1K 1% 1/4W	R967	1-215-455-00	METAL	27K 1% 1/4W
R911	1-215-455-00	METAL	27K 1% 1/4W	R968	1-215-455-00	METAL	27K 1% 1/4W
R912	1-215-469-00	METAL	100K 1% 1/4W	R969	1-215-455-00	METAL	27K 1% 1/4W
R913	1-215-455-00	METAL	27K 1% 1/4W	R970	1-215-455-00	METAL	27K 1% 1/4W
R914	1-215-455-00	METAL	27K 1% 1/4W	R971	1-215-455-00	METAL	27K 1% 1/4W
R915	1-215-455-00	METAL	27K 1% 1/4W	R972	1-215-455-00	METAL	27K 1% 1/4W
R916	1-215-455-00	METAL	27K 1% 1/4W	R973	1-214-800-11	METAL	2.2 1% 1/2W
R917	1-215-455-00	METAL	27K 1% 1/4W	R974	1-215-463-00	METAL	56K 1% 1/4W
R918	1-215-455-00	METAL	27K 1% 1/4W	R975	1-214-800-11	METAL	2.2 1% 1/2W
R919	1-249-435-11	CARBON	33K 5% 1/4W	R976	1-215-433-00	METAL	3.3K 1% 1/4W
R920	1-214-800-11	METAL	2.2 1% 1/2W	R977	1-247-815-91	CARBON	220 5% 1/4W
R921	1-249-429-11	CARBON	10K 5% 1/4W	R978	1-215-445-00	METAL	10K 1% 1/4W
R922	1-215-445-00	METAL	10K 1% 1/4W	R979	1-249-425-11	CARBON	4.7K 5% 1/4W
R923	1-249-425-11	CARBON	4.7K 5% 1/4W	R980	1-247-815-91	CARBON	220 5% 1/4W
R924	1-215-444-00	METAL	9.1K 1% 1/4W	R981	1-247-815-91	CARBON	220 5% 1/4W
R925	1-249-425-11	CARBON	4.7K 5% 1/4W	R983	1-247-815-91	CARBON	220 5% 1/4W
R926	1-249-408-11	CARBON	180 5% 1/4W	R984	1-215-444-00	METAL	9.1K 1% 1/4W
R927	1-215-445-00	METAL	10K 1% 1/4W	R985	1-215-445-00	METAL	10K 1% 1/4W
R928	1-215-445-00	METAL	10K 1% 1/4W	R986	1-215-451-00	METAL	18K 1% 1/4W
R929	1-214-800-11	METAL	2.2 1% 1/2W	R987	1-249-408-11	CARBON	180 5% 1/4W
R930	1-214-800-11	METAL	2.2 1% 1/2W	R988	1-215-445-00	METAL	10K 1% 1/4W
R931	1-215-445-00	METAL	10K 1% 1/4W	R989	1-249-425-11	CARBON	4.7K 5% 1/4W
				R990	1-249-429-11	CARBON	10K 5% 1/4W



The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK		
R991	1-249-429-11	CARBON	10K	5%	1/4W
R993	1-249-425-11	CARBON	4.7K	5%	1/4W
R996	1-247-815-91	CARBON	220	5%	1/4W
R997	1-215-445-00	METAL	10K	1%	1/4W
R998	1-249-434-11	CARBON	27K	5%	1/4W
R999	1-249-434-11	CARBON	27K	5%	1/4W
<RELAY>					
RY601	△ 1-755-018-11	RELAY			
<TRANSFORMER>					
T501	△ 1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE			
T502	△ 1-431-896-11	TRANSFORMER, FERRITE (PMT)			
T503	△ 1-431-212-11	TRANSFORMER, HORIZONTAL LINEAR			
T504	△ 8-598-994-00	FBT ASSY, NX-4007			
T603	△ 1-448-374-11	TRANSFORMER, POWER			
T604	△ 1-429-992-11	TRANSFORMER, CONVERTER (PRT)			
T605	△ 1-429-985-11	TRANSFORMER, CONVERTER (PIT)			
		(KP-41T65K/41T65T/53S65T)			
T605	△ 1-429-986-11	TRANSFORMER, CONVERTER (PIT)			
		(KP-48V75K/53V75K)			

* A-1331-777-A CR BOARD, COMPLETE (VAR)					
(KP-41T65K/41T65T/53S65T)					

* A-1331-804-A CR BOARD, COMPLETE (VAR)					
(KP-48V75K/53V75K)					

<CAPACITOR>					
C702	1-102-959-00	CERAMIC	22PF	5%	50V
C703	1-104-664-11	ELECT	47μF	20%	25V
C704	1-126-964-11	ELECT	10μF	20%	50V
C705	1-161-754-00	CERAMIC	0.001μF	10%	2KV
C706	1-126-934-11	ELECT	220μF	20%	16V
C707	1-107-504-11	CERAMIC	10PF	0.5PF	500V
C708	1-102-050-00	CERAMIC	0.01μF	99%	500V
C709	1-162-115-00	CERAMIC	330PF	10%	2KV
C712	1-107-662-11	ELECT	22μF	20%	250V
<CONNECTOR>					
CN701	1-695-915-11	TAB (CONTACT)			
CN702	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN703	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN704	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			
CN705	△ 1-251-182-11	SOCKET, CRT			
CN706	* 1-564-512-11	PLUG, CONNECTOR 9P			
CN707	1-695-915-11	TAB (CONTACT) (KP-48V75K/53V75K)			

REF. NO.	PART NO.	DESCRIPTION	REMARK		
<DIODE>					
D701	8-719-991-33	DIODE 1SS133T-77			
D702	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
D704	8-719-991-33	DIODE 1SS133T-77			
D705	8-719-923-86	DIODE MTZJ-T-77-15			
D706	8-719-923-86	DIODE MTZJ-T-77-15			
D708	8-719-110-17	DIODE RD10ESB2			
D709	8-719-109-88	DIODE RD5.6ESB1			
D710	8-719-991-33	DIODE 1SS133T-77			
<IC>					
IC701	8-759-434-39	IC TDA6106Q			
<COIL>					
L701	1-410-682-31	INDUCTOR	470μH		
<NEON LAMP>					
NL701	1-517-778-21	LAMP, NEON			
<TRANSISTOR>					
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q702	8-729-119-76	TRANSISTOR 2SA1175-HFE			
<RESISTOR>					
R701	1-219-743-11	CARBON	100	5%	1/2W
			(KP-41T65K/41T65T/53S65T)		
R701	1-219-745-11	CARBON	470	5%	1/2W
			(KP-48V75K/53V75K)		
R702	1-215-425-00	METAL	1.5K	1%	1/4W
R703	1-215-437-00	METAL	4.7K	1%	1/4W
R704	1-260-132-11	CARBON	560K	5%	1/2W
R705	1-215-424-00	METAL	1.3K	1%	1/4W
R706	1-215-431-00	METAL	2.7K	1%	1/4W
			(KP-48V75K/53V75K)		
R706	1-215-437-00	METAL	4.7K	1%	1/4W
			(KP-41T65K/41T65T/53S65T)		
R707	1-249-435-11	CARBON	33K	5%	1/4W
R708	1-215-428-00	METAL	2K	1%	1/4W
R709	1-260-101-11	CARBON	1.5K	5%	1/2W
R710	1-215-903-11	METAL OXIDE	68K	5%	2W
R711	1-249-435-11	CARBON	33K	5%	1/4W
R712	1-247-807-31	CARBON	100	5%	1/4W
R713	1-249-437-11	CARBON	47K	5%	1/4W
R714	1-260-099-11	CARBON	1K	5%	1/2W
R715	1-260-133-11	CARBON	680K	5%	1/2W
R717	1-249-417-11	CARBON	1K	5%	1/4W
R718	1-247-807-31	CARBON	100	5%	1/4W
R719	1-260-087-11	CARBON	100	5%	1/2W

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KP-41T65K/41T65T/48V75K/53S65T/53V75K
RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

CR CG CB

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<SPARK GAP>				R735	1-249-441-11	CARBON	100K 5% 1/4W
SG701	1-519-422-11	GAP, SPARK		R736	1-215-430-00	METAL	2.4K 1% 1/4W
SG702	1-519-422-11	GAP, SPARK		R737	1-260-101-11	CARBON	1.5K 5% 1/2W
*****				R738	1-215-903-11	METAL OXIDE	68K 5% 2W
* A-1331-778-A CG BOARD, COMPLETE (VAR)				R739	1-260-133-11	CARBON	680K 5% 1/2W
(KP-41T65K/41T65T/53S65T)				R740	1-260-099-11	CARBON	1K 5% 1/2W
*****				R741	1-215-424-00	METAL	1.3K 1% 1/4W
* A-1331-805-A CG BOARD, COMPLETE (VAR)				(KP-48V75K/53V75K)			
(KP-48V75K/53V75K)				R741	1-215-435-00	METAL	3.9K 1% 1/4W
*****				(KP-41T65K/41T65T/53S65T)			
<CAPACITOR>				R742	1-247-885-00	CARBON	180K 5% 1/4W
C732	1-102-963-00	CERAMIC	33PF 5% 50V	R743	1-247-807-31	CARBON	100 5% 1/4W
C733	1-161-754-00	CERAMIC	0.001 μ F 10% 2KV	<SPARK GAP>			
C735	1-102-050-00	CERAMIC	0.01 μ F 99% 500V	SG731	1-519-422-11	GAP, SPARK	
C736	1-162-115-00	CERAMIC	330PF 10% 2KV	SG732	1-519-422-11	GAP, SPARK	
C737	1-107-662-11	ELECT	22 μ F 20% 250V	*****			
<CONNECTOR>				* A-1331-779-A CB BOARD, COMPLETE (VAR)			
CN731	1-695-915-11	TAB (CONTACT)		(KP-41T65K/41T65T/53S65T)			
CN732	* 1-564-510-11	PLUG, CONNECTOR 7P		*****			
CN733	* 1-564-507-11	PLUG, CONNECTOR 4P		* A-1331-806-A CB BOARD, COMPLETE (VAR)			
CN734	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		(KP-48V75K/53V75K)			
CN735 Δ	1-251-182-11	SOCKET, CRT		*****			
<DIODE>				<CAPACITOR>			
D731	8-719-991-33	DIODE 1SS133T-77		C762	1-102-963-00	CERAMIC	33PF 5% 50V
D732	8-719-991-33	DIODE 1SS133T-77		C763	1-161-754-00	CERAMIC	0.001 μ F 10% 2KV
D733	8-719-110-17	DIODE RD10ESB2		C765	1-102-050-00	CERAMIC	0.01 μ F 99% 500V
<IC>				C766	1-162-115-00	CERAMIC	330PF 10% 2KV
IC731	8-759-434-39	IC TDA6106Q		C767	1-107-662-11	ELECT	22 μ F 20% 250V
<COIL>				<CONNECTOR>			
L731	1-410-682-31	INDUCTOR	470 μ H	CN761	1-695-915-11	TAB (CONTACT)	
<NEON LAMP>				CN762	* 1-564-507-11	PLUG, CONNECTOR 4P	
NL731	1-517-778-21	LAMP, NEON		CN763	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
<RESISTOR>				CN764 Δ	1-251-182-11	SOCKET, CRT	
R731	1-219-743-11	CARBON	100 5% 1/2W	CN765	* 1-564-512-11	PLUG, CONNECTOR 9P	
R732	1-260-132-11	CARBON	560K 5% 1/2W	CN766	1-564-513-11	PLUG, CONNECTOR 10P	
R733	1-215-421-00	METAL	1K 1% 1/4W	CN767	1-695-915-11	TAB (CONTACT) (KP-48V75K/53V75K)	
				<DIODE>			
				D761	8-719-991-33	DIODE 1SS133T-77	
				D762	8-719-923-86	DIODE MTZJ-T-77-15	
				D763	8-719-110-17	DIODE RD10ESB2	
				D764	8-719-923-86	DIODE MTZJ-T-77-15	
				<IC>			
				IC761	8-759-434-39	IC TDA6106Q	



REF. NO.	PART NO.	DESCRIPTION	REMARK			
<COIL>						
L761	1-410-682-31	INDUCTOR	470μH			
<NEON LAMP>						
NL761	1-517-778-21	LAMP, NEON				
<RESISTOR>						
R761	1-219-743-11	CARBON	100	5%	1/2W	
R762	1-260-132-11	CARBON	560K	5%	1/2W	
R763	1-215-420-00	METAL	910	1%	1/4W	
R764	1-249-426-11	CARBON	5.6K	5%	1/4W	
R765	1-215-430-00	METAL	2.4K	1%	1/4W	
R766	1-260-101-11	CARBON	1.5K	5%	1/2W	
R767	1-215-903-11	METAL OXIDE	68K	5%	2W	
R768	1-260-133-11	CARBON	680K	5%	1/2W	
R769	1-260-099-11	CARBON	1K	5%	1/2W	
R770	1-247-807-31	CARBON	100	5%	1/4W	
R771	1-260-087-11	CARBON	100	5%	1/2W	
<SPARK GAP>						
SG761	1-519-422-11	GAP, SPARK				
SG762	1-519-422-11	GAP, SPARK				

* A-1372-474-A		HA BOARD, COMPLETE (VAR) (KP-41T65K/41T65T/53S65T) *****				
* A-1372-476-A		HA BOARD, COMPLETE (VAR) (KP-48V75K/53V75K) *****				
<CAPACITOR>						
C1301	1-130-495-00	FILM	0.1μF	5%	50V	
(KP-41T65K/41T65T/53S65T)						
C1301	1-126-959-11	ELECT	0.47μF	20%	50V	
(KP-48V75K/53V75K)						
C1302	1-126-959-11	ELECT	0.47μF	20%	50V	
C1304	1-126-964-11	ELECT	10μF	20%	50V	
C1305	1-126-959-11	ELECT	0.47μF	20%	50V	
(KP-48V75K/53V75K)						
C1305	1-130-495-00	FILM	0.1μF	5%	50V	
(KP-41T65K/41T65T/53S65T)						
C1306	1-126-964-11	ELECT	10μF	20%	50V	
C1307	1-126-964-11	ELECT	10μF	20%	50V	
<CONNECTOR>						
CN1301	1-564-523-11	PLUG, CONNECTOR 8P				
CN1302 *	1-564-526-11	PLUG, CONNECTOR 11P				

REF. NO.	PART NO.	DESCRIPTION	REMARK			
CN1304 * 1-564-518-11 PLUG, CONNECTOR 3P						
<DIODE>						
D1301	8-719-110-17	DIODE RD10ESB2				
D1302	8-719-110-17	DIODE RD10ESB2				
D1303	8-719-110-17	DIODE RD10ESB2				
D1304	8-719-053-43	DIODE SLR-325VCT31				
D1305	8-719-053-43	DIODE SLR-325VCT31				
D1306	8-719-110-17	DIODE RD10ESB2				
D1307	8-719-110-17	DIODE RD10ESB2				
D1308	8-719-110-17	DIODE RD10ESB2				
D1309	8-719-109-89	DIODE RD5.6ESB2				
<IC>						
IC1301	8-742-088-10	HYB IC SBX1780-51(10)				
<JACK>						
J1301	1-770-361-11	TERMINAL BLOCK, S				
<RESISTOR>						
R1301	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1302	1-249-416-11	CARBON	820	5%	1/4W	
R1303	1-249-417-11	CARBON	1K	5%	1/4W	
R1304	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1305	1-247-815-91	CARBON	220	5%	1/4W	
R1306	1-247-815-91	CARBON	220	5%	1/4W	
R1307	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1308	1-247-895-91	CARBON	470K	5%	1/4W	
R1309	1-247-895-91	CARBON	470K	5%	1/4W	
R1310	1-249-429-11	CARBON	10K	5%	1/4W	
R1311	1-247-804-11	CARBON	75	5%	1/4W	
R1312	1-247-804-11	CARBON	75	5%	1/4W	
R1314	1-247-807-31	CARBON	100	5%	1/4W	
R1315	1-247-804-11	CARBON	75	5%	1/4W	
<SWITCH>						
S1301	1-572-198-11	SWITCH, KEYBOARD				
S1302	1-572-198-11	SWITCH, KEYBOARD				
S1303	1-572-198-11	SWITCH, KEYBOARD				
S1304	1-572-198-11	SWITCH, KEYBOARD				
S1305	1-572-198-11	SWITCH, KEYBOARD				
S1306	1-572-198-11	SWITCH, KEYBOARD				
S1307	1-572-198-11	SWITCH, KEYBOARD				

* A-1390-826-A Z BOARD, COMPLETE (COM)						

4-382-854-11 SCREW (M3X10), P, SW (+)						

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KP-41T65K/41T65T/48V75K/53S65T/53V75K

RM-Y149A RM-Y136A RM-Y901K RM-Y136A RM-Y901K

Z

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>			
C1433	1-106-343-00	MYLAR 0.001 μ F 10% 200V	
C1434	1-106-383-00	MYLAR 0.047 μ F 10% 200V	
C1435	1-107-667-11	ELECT 2.2 μ F 20% 160V	
C1436	1-137-364-11	FILM 0.001 μ F 5% 50V	
C1437	1-137-364-11	FILM 0.001 μ F 5% 50V	
C1438	1-106-383-00	MYLAR 0.047 μ F 10% 200V	
C1439	1-161-830-00	CERAMIC 0.0047 μ F 500V	
C1440	1-126-933-11	ELECT 100 μ F 20% 16V	
C1441	1-102-074-00	CERAMIC 0.001 μ F 10% 50V	
C1443	1-126-935-11	ELECT 470 μ F 20% 16V	
C1444	1-107-639-11	ELECT 47 μ F 20% 160V	
C1445	1-126-933-11	ELECT 100 μ F 20% 16V	
C1446	1-126-933-11	ELECT 100 μ F 20% 16V	
<CONNECTOR>			
CN1401 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN1402	1-564-505-11	PLUG, CONNECTOR 2P	
CN1403 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN1404 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1406 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1431 *	1-564-508-11	PLUG, CONNECTOR 5P	
CN1433 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1434 *	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P	
CN1461 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN1462 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1463	1-564-505-11	PLUG, CONNECTOR 2P	
CN1464 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1465	1-564-505-11	PLUG, CONNECTOR 2P (KP-53V75K)	
<DIODE>			
D1431	8-719-110-88	DIODE RD39ESB2	
D1432	8-719-110-88	DIODE RD39ESB2	
D1433	8-719-991-33	DIODE ISS133T-77	
<CONNECTOR>			
DY1431 Δ	1-451-454-11	DEFLECTION YOKE (EXCEPT KP-53S65T)	
DY1431 Δ	1-451-455-11	DEFLECTION YOKE (KP-53S65T)	
<COIL>			
L1431	1-410-478-11	INDUCTOR 47 μ H	
L1432	1-410-478-11	INDUCTOR 47 μ H	
<TRANSISTOR>			
Q1431	8-729-017-06	TRANSISTOR 2SC4793	
Q1432	8-729-017-05	TRANSISTOR 2SA1837	
Q1433	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1434	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1435	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1436	8-729-119-78	TRANSISTOR 2SC2785-HFE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R1401	1-249-414-11	CARBON 560 5% 1/4W	
R1402	1-249-414-11	CARBON 560 5% 1/4W	
R1415	1-216-475-11	METAL OXIDE 120 5% 3W	
R1418	1-216-475-11	METAL OXIDE 120 5% 3W	
R1431	1-249-414-11	CARBON 560 5% 1/4W	
R1432	1-249-414-11	CARBON 560 5% 1/4W	
R1435	1-216-475-11	METAL OXIDE 120 5% 3W	
R1436	1-216-475-11	METAL OXIDE 120 5% 3W	
R1437	1-249-414-11	CARBON 560 5% 1/4W	
R1438	1-249-432-11	CARBON 18K 5% 1/4W	
R1439	1-249-432-11	CARBON 18K 5% 1/4W	
R1440	1-249-414-11	CARBON 560 5% 1/4W	
R1441	1-249-417-11	CARBON 1K 5% 1/4W	
R1442	1-249-408-11	CARBON 180 5% 1/4W	
R1443	1-249-377-11	CARBON 0.47 5% 1/4W	
R1445	1-249-403-11	CARBON 68 5% 1/4W	
R1448	1-249-416-11	CARBON 820 5% 1/4W	
R1449	1-249-403-11	CARBON 68 5% 1/4W	
R1450	1-249-417-11	CARBON 1K 5% 1/4W	
R1451	1-249-411-11	CARBON 330 5% 1/4W	
R1452	1-249-417-11	CARBON 1K 5% 1/4W	
R1453	1-249-401-11	CARBON 47 5% 1/4W	
R1454	1-260-311-11	CARBON 39 5% 1/2W	
R1455	1-249-384-11	CARBON 1.8 5% 1/4W	
R1456	1-215-916-00	METAL OXIDE 680 5% 3W	
R1457	1-249-417-11	CARBON 1K 5% 1/4W	
R1458	1-249-384-11	CARBON 1.8 5% 1/4W	
R1459	1-249-400-11	CARBON 39 5% 1/4W	
R1460	1-215-916-00	METAL OXIDE 680 5% 3W	
R1461	1-249-414-11	CARBON 560 5% 1/4W	
R1462	1-249-414-11	CARBON 560 5% 1/4W	
R1464	1-249-417-11	CARBON 1K 5% 1/4W	
R1465	1-216-475-11	METAL OXIDE 120 5% 3W	
R1466	1-216-475-11	METAL OXIDE 120 5% 3W	

MISCELLANEOUS

Δ A-1501-277-A	COUPLER (B) ASSY, PICTURE TUBE (KP-53V75K)
Δ A-1501-278-A	COUPLER (R) ASSY, PICTURE TUBE (KP-53V75K)
Δ A-1501-279-A	COUPLER (G) ASSY, PICTURE TUBE (KP-53V75K)

Δ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)
1-451-454-11	DEFLECTION YOKE (G)
1-451-454-31	DEFLECTION YOKE (R) (B)
Δ 1-452-790-21	NECK ASSY (KP-48V75K/53S65T)
Δ 1-453-238-11	TRANSFORMER ASSY, FLYBACK (NX-4007//X4A4) (KP-53S65T/53V75K)

Δ 1-453-238-12	TRANSFORMER ASSY, FLYBACK (NX-4007//X4A4) (KP-48V75K)
Δ 1-453-248-21	TRANSFORMER ASSY, FLYBACK (NX-4007//X4T4)

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-505-378-11	SPEAKER (10CM) (KP-53S65T)	
	1-505-426-11	SPEAKER (10.6CM) (KP-48V75K/53V75K)	
	1-505-748-11	SPEAKER (10CM)	
	1-556-945-21	CABLE, P-P	
	* 1-557-056-31	CABLE, P-P	
	\triangle 1-765-486-11	CORD, POWER (WITH CONNECTOR) (KP-41T65T)	
	\triangle 1-775-468-11	CORD, POWER (WITH CONNECTOR) (KP-41T65K)	
	8-598-414-00	ANTENNA SWITCH AS-2F	
	\triangle 8-598-955-30	BLOCK ASSY, HIGH-VOLTAGE	
	\triangle 8-733-570-01	PICTURE TUBE 07MXC2(G) (EXCEPT KP-53V75K)	
	\triangle 8-733-572-01	PICTURE TUBE 07MXC2(R) (EXCEPT KP-53V75K)	
	\triangle 8-733-574-01	PICTURE TUBE 07MAC2(B) (EXCEPT KP-53V75K)	

ACCESSORIES AND PACKING MATERIALS *****			
	3-862-541-51	MANUAL, INSTRUCTION (KP-41T65T/53S65T)	
	3-862-541-61	MANUAL, INSTRUCTION (KP-41T65K)	
	3-862-729-31	MANUAL, INSTRUCTION (KP-48V75K/53V75K)	
	* 4-037-674-01	BOARD, TOP (KP-48V75K)	
	* 4-041-423-01	SHEET, PROTECTION (KP-41T65K/41T65T/48V75K)	
	* 4-041-425-01	BAG, PROTECTION (KP-48V75K)	
	* 4-041-426-01	BAG, PROTECTION (KP-53S65T/53V75K)	
	* 4-042-463-01	SHEET, PROTECTION (KP-53S65T/53V75K)	
	* 4-047-774-01	PLATE, TOP (KP-53S65T/53V75K)	
	* 4-049-155-01	"BAG, PROTECTION (KP-41T65K/41T65T)	
	* 4-056-266-01	PALLET, RUNNER (KP-48V75K)	
	* 4-056-291-01	INDIVIDUAL CARTON (KP-53S65T/53V75K)	
	* 4-056-292-01	CUSHION (UPPER) (ASSY) (KP-53S65T/53V75K)	
	* 4-056-293-01	CUSHION (LOWER) (ASSY) (KP-53S65T/53V75K)	
	* 4-056-298-01	BOARD, BOTTOM (KP-53S65T/53V75K)	
	* 4-056-300-01	TRAY (KP-53S65T/53V75K)	
	* 4-057-558-01	INDIVIDUAL CARTON (KP-41T65K/41T65T)	
	* 4-057-559-01	TRAY (KP-41T65K/41T65T)	
	* 4-057-560-01	CUSHION (UPPER) (ASSY) (KP-41T65K/41T65T)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
	* 4-057-561-01	CUSHION (LOWER) (ASSY) (KP-41T65K/41T65T)	
	* 4-057-651-02	CUSHION (UPPER) (ASSY) (KP-48V75K)	
	* 4-057-652-01	CUSHION (LOWER) (ASSY) (KP-48V75K)	
	* 4-057-657-01	INDIVIDUAL CARTON (KP-48V75K)	
	* 4-057-658-01	TRAY (KP-48V75K)	
	* 4-057-659-01	BOARD, BOTTOM (KP-48V75K)	
REMOTE COMMANDER *****			
	1-473-749-31	REMOTE COMMANDER (RM-Y136A) (KP-41T65T/53S65T)	
	4-978-977-01	POCKET, COVER (FOR RM-Y136A) (KP-41T65T/53S65T)	
	1-475-069-21	REMOTE COMMANDER (RM-Y149A) (KP-41T65K)	
	4-978-977-01	POCKET, COVER (FOR RM-Y149A) (KP-41T65K)	
	1-475-541-11	REMOTE COMMANDER (RM-Y901K) (KP-48V75K/53V75K)	
	4-978-977-01	POCKET, COVER (FOR RM-Y901K) (KP-48V75K/53V75K)	